



**NAVY TRAINING SYSTEM PLAN**

**FOR THE**

**AIR CAPABLE SHIP**

**VISUAL LANDING AID SYSTEMS**

**N88-NTSP-A-50-9205B/P**

**MAY 2003**

**AIR CAPABLE SHIP**  
**VISUAL LANDING AID SYSTEMS**

**EXECUTIVE SUMMARY**

This Navy Training System Plan (NTSP) has been developed to identify the life cycle manpower, personnel, and training requirements associated with Air Capable Ship Visual Landing Aid (VLA) Systems.

Due to the similarity and close interface between systems, all Air Capable Ship VLA Systems are addressed together in this NTSP, with the exception of the Wind Measuring and Indicating System (WMIS). (WMIS will be addressed in a newly developed NTSP that will include all Aircraft Launch and Recovery Equipment Wind Systems.) The Air Capable Ships complement of VLA Systems includes the Helicopter Operations Surveillance System (HOSS), Stabilized Glide Slope Indicator (SGSI), Horizon Reference Set (HRS), Flight Deck Status and Signaling System (FDSSS), and the Wave-Off Light (WOL). These systems are used to enhance the capability of helicopters to operate at night and in adverse weather conditions from the small flight decks of Air Capable Ships. All Air Capable Ship VLA Systems are beyond the Milestone C Decision Point and are in the Operations and Support Phase of the Defense Acquisition System.

The HOSS is operated from the Combat Information Center by Interior Communication Electricians (IC) with Navy Enlisted Classification (NEC) 4746. The HRS, FDSSS, and WOL are operated by, Landing Signal Officers (LSO). After activation, the SGSI does not require an operator.

VLA Systems are maintained at the organizational, and intermediate levels by, ICs, Electrician's Mates, and Electronics Technicians with NECs 4746, 4758, or 4673 as applicable.

Initial training required to support the development and fleet introduction of the VLA Systems has been completed. LSO qualifications are obtained through On-the-Job Training. Follow-on operator and maintenance training for the HOSS is established at Service School Command Great Lakes, Illinois. Follow-on maintenance training for the HRS is established at Fleet Training Center (FTC) Norfolk, Virginia, and FTC San Diego, California. SGSI, FDSSS, and WOL follow-on maintenance training is established at Naval Air Maintenance Training Unit Norfolk, Virginia, and North Island, California.

Current Air Capable Ship manning is sufficient to operate and maintain the VLA Systems addressed in this NTSP. No changes to current manpower requirements are anticipated.

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**LIST OF ACRONYMS**

|            |   |
|------------|---|
| ACDU       | Active Duty                               |
| ALRE       | Aircraft Launch and Recovery Equipment    |
| AOB        | Average Onboard                           |
| ASGSI      | Advanced Stabilized Glide Slope Indicator |
| ATIR       | Annual Training Input Requirement         |
| CFY        | Current Fiscal Year                       |
| CI         | Control Indicator                         |
| CIC        | Combat Information Center                 |
| CIN        | Course Identification Number              |
| CM         | Corrective Maintenance                    |
| CNO        | Chief of Naval Operations                 |
| COMLANTFLT | Commander Atlantic Fleet                  |
| COMPACFLT  | Commander Pacific Fleet                   |
| CSMP       | Consolidated Ships Maintenance Plan       |
| DDG        | Guided Missile Destroyer                  |
| ECA        | Electronic Component Assembly             |
| EM         | Electrician's Mate                        |
| ET         | Electronics Technician                    |
| FDSSS      | Flight Deck Status and Signaling System   |
| FMS        | Foreign Military Sales                    |
| FTC        | Fleet Training Center                     |
| FTS&L      | Fleet Technical Services and Logistics    |
| FY         | Fiscal Year                               |
| GFE        | Government Furnished Equipment            |
| GPETE      | General Purpose Electronic Test Equipment |
| GQ         | General Quarters                          |
| HCS        | Helicopter Control Station                |
| HOSS       | Helicopter Operations Surveillance System |
| HRS        | Horizon Reference Set                     |
| Hz         | Hertz                                     |
| IC         | Interior Communications Electrician       |

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**LIST OF ACRONYMS**

|            |   |
|------------|---|
| ILARTS     | Integrated Launch and Recovery Television Surveillance System |
| ILSP       | Integrated Logistics Support Plan                             |
| ISD        | Indicator Stabilization Data                                  |
| LAMPS      | Light Airborne Multipurpose System                            |
| LPBA       | Lamp Panel and Bar Assembly                                   |
| LPD        | Amphibious Transport Dock                                     |
| LSA        | Logistic Support Analysis                                     |
| LSO        | Landing Signal Officer  |
| MRC        | Maintenance Requirements Card                                 |
| MSD        | Material Support Date   |
| NA         | Not Applicable  |
| NAMTRAU    | Naval Air Maintenance Training Unit                           |
| NAVAIR     | Naval Air Systems Command                                     |
| NAVPERSCOM | Naval Personnel Command                                       |
| NAWCADLKE  | Naval Air Warfare Center Aircraft Division Lakehurst          |
| NEC        | Navy Enlisted Classification                                  |
| NETC       | Naval Education and Training Command                          |
| NOB        | Naval Operations Base   |
| NOBC       | Naval Officer Billet Code                                     |
| OJT        | On-the-Job Training   |
| OPNAV      | Office of The Chief of Naval Operations                       |
| OPO        | OPNAV Principal Official                                      |
| PFY        | Previous Fiscal Year  |
| PM         | Preventive Maintenance  |
| PMA        | Program Manager, Air  |
| PNEC       | Primary Navy Enlisted Classification                          |
| PQS        | Personnel Qualification Standards                             |
| RAST       | Recovery Assist, Securing, and Traversing                     |
| SGSI       | Stabilized Glide Slope Indicator                              |
| SNEC       | Secondary Navy Enlisted Classification                        |
| SRA        | Shop Replaceable Assembly                                     |

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**LIST OF ACRONYMS**

|      |   |
|------|---|
| SSC  | Service School Command                  |
| ST   | Special Tool                            |
| TAR  | Training and Administration of Reserves |
| TD   | Training Device                         |
| TTE  | Technical Training Equipment            |
| VAC  | Volts Alternating Current               |
| VCR  | Video Cassette Recorder                 |
| VDC  | Volts Direct Current                    |
| VLA  | Visual Landing Aid                      |
| WMIS | Wind Measuring and Indicating System    |
| WOL  | Wave-Off Light                          |
| WRA  | Weapon Replaceable Assembly             |

**AIR CAPABLE SHIP**  
**VISUAL LANDING AID SYSTEMS**

**PREFACE**

This Proposed Navy Training System Plan (NTSP) for the Air Capable Ship Visual Landing Aid Systems updates the Draft Air Capable Ship Visual Landing Aid Systems NTSP, A-50-9205B/D, dated August 2002. This NTSP was developed in accordance with guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97.

The Draft NTSP of August 2002 was posted to the OPNAV N789H web page for review comments; no comments were received.

## PART I - TECHNICAL PROGRAM DATA

### A. NOMENCLATURE-TITLE-PROGRAM

**1. Nomenclature-Title-Acronym.** Air Capable Ship Visual Landing Aid (VLA)  
Systems

**2. Program Element.** 43SJ830

### B. SECURITY CLASSIFICATION

- 1. System Characteristics** ..... Unclassified
- 2. Capabilities** ..... Unclassified
- 3. Functions**..... Unclassified

### C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N78)

OPO Resource Sponsor..... CNO (N78)

Developing Agency ..... NAVAIR (PMA251)

Training Agency ..... COMLANTFLT  
COMPACFLT  
CNATT (FID N5)

Training Support Agency..... NAVAIR (PMA205)

Manpower and Personnel Mission Sponsor..... CNO (N12)  
NAVPERSCOM (PERS-4, PERS-404)

Director of Naval Education and Training ..... CNO (N00T)

### D. SYSTEM DESCRIPTION

**1. Operational Uses.** The HOSS, SGSI, HRS, FDSSS, and WOL are VLAs designed to improve safety and efficiency and to enhance the capability of helicopters to operate day and night and in adverse weather conditions from the small flight decks of Air Capable Ships.



**2. Foreign Military Sales.** Specific information concerning Foreign Military Sales (FMS) and use by other services of the five VLA Systems addressed in this NTSP may be obtained from the NAVAIR Program Manager, Air (PMA) 251.

**a. Helicopter Operations Surveillance System.** The HOSS is used aboard United States Coast Guard vessels.

**b. Stabilized Glide Slope Indicator.** Sales of SGSI Systems have been made to Spain, Taiwan, and Australia.

**c. Horizon Reference Set.** Sales of the HRS have been made to Spain, Taiwan, and Australia. Sales are ongoing and planned through Fiscal Year (FY) 03.

**d. Flight Deck Status and Signaling System.** Sales of the FDSSS have been made to Spain, Taiwan, and Australia. Sales are ongoing and planned through FY 03.

**e. Wave-Off Light.** Sales of the WOL have been made to Spain, Taiwan, and Australia.

## **E. DEVELOPMENTAL TEST AND OPERATIONAL TEST**

**1. Developmental Test.** Developmental Tests for the five VLA Systems addressed in this NTSP have been successfully completed.

**2. Operational Test.** Operational Tests for the five VLA Systems addressed in this NTSP have been successfully completed.

## **F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED**

**1. Helicopter Operations Surveillance System.** The HOSS did not replace any existing operations surveillance system.

**2. Stabilized Glide Slope Indicator.** The SGSI did not replace any existing glide slope indicator system. The SGSI will be replaced in the future with the Advanced Stabilized Glide Slope Indicator (ASGSI). The ASGSI will be a state-of-the-art system that will eliminate the use of hydraulic components, improve reliability, reduce life cycle costs, reduce system weight, and reduce equipment noise signature. The ASGSI program is not currently funded. When the ASGSI program is funded and more information becomes available, ASGSI will be included in updates to this NTSP.

**3. Horizon Reference Set.** The HRS did not replace any existing horizon reference system.

**4. Flight Deck Status and Signaling System.** The FDSSS did not replace any existing shipboard signaling system.

**5. Wave-Off Light.** The WOL replaced a less sophisticated electrical wave-off system.

## **G. DESCRIPTION OF NEW DEVELOPMENT**

### **1. Functional Description**

**a. Helicopter Operations Surveillance System.** HOSS provides an immediate and recordable closed-circuit television display of helicopter launch, recovery, Vertical Replenishment, Helicopter In-Flight Replenishment, and on-deck maneuvering operations. The televised information is displayed in real-time to facilitate control of flight deck operations during flight quarters. The video recording of this information assists in the analysis of mishaps and provides a visual training aid for pilot and flight deck personnel. The HOSS is comprised of common industrial-type video components. All remote controls, Video Cassette Recorders (VCR), and video monitors are located in and operated from the Combat Information Center (CIC) and the bridge.

**b. Stabilized Glide Slope Indicator.** The SGSI system is an Electromagnetic Interference hardened landing aid designed for use on Air Capable Ships. By use of the SGSI, a helicopter pilot may visually establish and maintain the proper glide slope for a safe landing. In order to steady the glide slope indicator with respect to the pitching and rolling motions of the ship, the indicator light cell is mounted on an electro-hydraulic stabilized platform. This equipment uses a local gyro for reference and develops electronic error signals that in turn control hydraulic cylinders that move the platform in an opposite direction to the ship's pitch and roll axis. A failure detection circuit is also provided for the system internal gyro, remote gyro operation, and rate lead circuits by direct comparison with the ship's pitch and roll signals to reduce platform dynamic errors. In the event of system failure, the error detection circuits will put the system in a non-ready status and shut off the indicator light.

**c. Horizon Reference Set.** The HRS is an all-weather, electro-mechanically stabilized landing aid designed for use on Light Airborne Multipurpose System (LAMPS) MK III designated Air Capable Ships. It provides a visual cue or reference of the true horizon that is independent of the ship's rolling motion. The system indicator is mounted on the top aft section of the hangar structure, along the ship's centerline, and can be seen by the pilot of an approaching or hovering helicopter when he conducts his normal obstruction clearance scan. This allows the pilot to maintain the proper attitude prior to touchdown and recovery. The HRS is controlled by a three-wire, synchro input command signal that originates from the ship's gyro roll reference system. As the ship rolls, the command signal from the gyro reference system causes the indicating bar to rotate opposite and proportional to the ship's roll. The internal positional feedback circuitry ensures that the bar remains parallel to the horizon by eliminating any error.

**d. Flight Deck Status and Signaling System.** The FDSSS is a panel-type command and control system designed for use on Air Capable Ships equipped to support LAMPS MK III air operations. The system enables the Helicopter Control Officer at the helicopter landing deck or the Landing Signal Officer (LSO) (Navy Officer Billet Code (NOBC)

1310) at the Recovery Assist, Securing, and Traversing (RAST) Control Console to request and receive launch and recovery authorization from the bridge and CIC. Wave-off control can only be initiated from the RAST Control Console, Operations Request Panel, or Wave-off Master Control Panel.

**e. Wave-Off Light.** The WOL system is an electronic signaling system designed for use on Air Capable Ships. WOLs are installed on each side of the SGSI platform. When activated, WOLs provide a visual indication to a helicopter pilot to discontinue the landing approach. There are two configurations of the WOL system. The 618401-1 WOL is used on Air Capable Ships that are not configured with the LAMPS MK III VLA System. The 618401-2 WOL is used aboard Air Capable Ships that are configured with the LAMPS MK III VLA System.

## **2. Physical Description**

**a. Helicopter Operations Surveillance System.** The HOSS consists of a day-night camera using a 10:1 zoom lens in an environmental housing on a remote control pan and tilt mount. Additionally, a video monitor is located on the bridge. A video date and time generator is provided, and pilot, LSO, and CIC voice communications may be recorded on video tape at the ship's discretion. The HOSS is comprised of the following major assemblies:

**(1) Camera Station.** The Camera Station is located near the helicopter pad and consists of a closed circuit television camera, pan and tilt assembly, pedestal assembly, and junction box.

**(2) Control Station.** The Control Station is located in the CIC and consists of a nine-inch black and white monitor with mount, a VCR with mount, and a System Control Unit that consists of a time-date generator, pan-tilt controls, video distributor, and an additional operator control unit.

**(3) Monitoring Station.** The Monitoring Station is located in the bridge compartment and consists of a nine-inch black and white monitor and mounting rack, and an operator control unit.

**(4) Station Interconnect Cabling.** The Station Interconnect Cabling connects the control station with the camera station and the bridge monitor station.

| ASSEMBLY              | QTY | DIMENSIONS (INCHES)        |       |       | WEIGHT (POUNDS) |
|-----------------------|-----|----------------------------|-------|-------|-----------------|
|                       |     | HEIGHT                     | WIDTH | DEPTH |                 |
| Camera                | 1   | 4.5 diameter x 12.0 length |       |       | 10              |
| Pan and Tilt Assembly | 1   | 16.0                       | 14.0  | 10.0  | 65              |
| Junction Box          | 1   | 5.0                        | 12.0  | 10.0  | 20              |
| System Control Unit   | 1   | 20.0                       | 16.0  | 6.0   | 30              |

| ASSEMBLY              | QTY | DIMENSIONS (INCHES) |       |       | WEIGHT<br>(POUNDS) |
|-----------------------|-----|---------------------|-------|-------|--------------------|
|                       |     | HEIGHT              | WIDTH | DEPTH |                    |
| Operator Control Unit | 2   | 8.0                 | 6.0   | 4.0   | 15                 |
| Monitor Assembly      | 2   | 13.25               | 12.64 | 10.4  | 20                 |
| VCR (With Mount)      | 1   | 6.0                 | 20.0  | 17.0  | 16                 |

**b. Stabilized Glide Slope Indicator.** The SGSI MK 1 MOD 0/MOD 1 System consists of the following major subassemblies:

**(1) Electronics Enclosure Assembly F100.** This assembly is a bulkhead-mounted enclosure located in a closed compartment in the proximity of the stabilized platform. It is the electronic signal processing, distribution, and control center for the system. This assembly houses the EMI Hardening Enclosure Assembly, gyro amplifier, 28 Volts Direct Current (VDC) power supply, dual  $\pm 15$  VDC power supply, 400 Hertz (Hz) inverter, card cage containing ten circuit board assemblies, terminal boards for wire connections, and the Components Panel Assembly. The Electronics Enclosure receives ship's electrical power and converts and/or distributes operational voltages through the system. The Components Panel Assembly (F120) is used to prepare the system for operation and contains relays, switch-indicator assemblies, light indicators, on-off switches, fuse assemblies, test jacks, and a 15-amp system circuit breaker.

**(2) Remote Control Panel Assembly F200.** This assembly is a bulkhead-mounted panel located in the flight control room, providing remote controls and indicators for operating and monitoring the SGSI System. The hinged cover panel contains mountings for a gyro alarm reset, audio alarm override, on-off switches, indicator lights to advise of system status, and controls for adjusting source light intensity and panel illumination. The Source Light Failure Board Assembly (F201) mounted in the panel detects failures in the glide slope indicator source light circuit and illuminates a failure warning light on the cover. The gyro failure audio alarm circuit is protected by, the Diode Plate Assembly mounted in the unit containing diode protection circuitry.

**(3) Hydraulic Pump Assembly F300.** This is a deck-mounted assembly, which is a self-contained, closed-loop hydraulic system. It is comprised of an electric motor, coupling and pump assembly, reservoir, fluid heater, suction and pressure filters, sight gage, valves, pressure switches, associated plumbing, and a cover assembly. Ship's electrical power is required to operate the hydraulic system, which develops hydraulic pressure for operation of the pitch and roll actuators of the stabilized platform.

**(4) Transformer Assembly F400.** This assembly is bulkhead mounted within three feet of the stabilized platform and is connected by a fixed length of cable, ten feet long, in order to minimize voltage drop. The transformer supplies power to the three 21-volt, 150-watt projection style lamps used in the glide slope indicator for source lights.

**(5) Glide Slope Indicator Assembly F500.** This assembly is secured to the top of the stabilized platform and consists of two major subassemblies, the Adjustable Mount Assembly and the Glide Slope Indicator Subassembly. The Adjustable Mount Assembly provides elevation and lateral adjustments to accurately position and mount the Glide Slope Indicator Subassembly to the stabilized platform. The Glide Slope Indicator Subassembly, secured to the Adjustable Mount Assembly, contains the blower hood assembly, lamp stick assembly, two lens heater assemblies, a fresnel lens, and a tricolor lenticular lens. This subassembly provides the stabilized, visual reference light bar used by the pilot of an approaching aircraft to establish a safe landing glide slope angle.

**(6) Stabilized Platform Assembly F600.** This is a deck-mounted assembly adjacent to the helicopter landing area. The Stabilized Platform Assembly contains a system gyro, pitch and roll hydraulic actuated cylinders, electrically operated servo-valves, and a gimbaled platform made up from a top plate assembly, a universal assembly, and a base plate. This platform is used to stabilize the glide slope indicator around the ship's pitch and roll motions, maintaining the projected light beam at a fixed angle to the horizon. The gyro acts as a sensor for the system, detecting deviations from the level platform position and directing error signals to the gyro sensing circuits. The signals are further processed and distributed to power the servo-valves. These servo-valves control the hydraulic pressure to the pitch and roll hydraulic actuators, stabilizing the glide slope indicator.

**(7) Separate Gyro F800.** The separate gyro is a deck-mounted assembly, which contains a vertical reference sensor used to provide the pitch and roll input to the MK 1 MOD 1 Stabilized Glide Slope Indicator (SGSI without ship's pitch and roll input).

**(8) Isolation Transformer F900.** The Isolation Transformer F900 is a weather-tight enclosure mounted near the Electronics Enclosure Assembly. An interconnecting cable, which is part of the Isolation Transformer Assembly, serves to connect it to the Electronic Enclosure Assembly. Weatherproof stuffing tubes are installed for cables connecting the Isolation Transformer Assembly to the Electronics Enclosure Assembly and ship's power.

| ASSEMBLY              | UNIT<br>NUMBER | DIMENSIONS (INCHES) |       |       | WEIGHT<br>(POUNDS) |
|-----------------------|----------------|---------------------|-------|-------|--------------------|
|                       |                | HEIGHT              | WIDTH | DEPTH |                    |
| Electronics Enclosure | F100           | 30.0                | 24.0  | 9.0   | 108                |
| Remote Control Panel  | F200           | 14.0                | 12.0  | 6.0   | 22                 |
| Hydraulic Pump        | F300           | 27.9                | 17.0  | 26.0  | 245                |
| Transformer Assembly  | F400           | 13.3                | 9.2   | 6.6   | 27                 |
| Glide Slope Indicator | F500           | 13.0                | 22.5  | 26.0  | 60                 |
| Stabilized Platform   | F600           | 24.5                | 25.0  | 28.0  | 277                |
| Separate Gyro         | F800           | 8.6                 | 8.0   | 24.0  | 25                 |
| Isolation Transformer | F900           | 11.0                | 9.3   | 8.4   | 60                 |

**c. Horizon Reference Set.** The HRS requires input power of 115 Volts Alternating Current (VAC)  $\pm 7\%$  (107 to 123 VAC), 60 Hz  $\pm 3\%$  (58 to 62 Hz), 1.5A, two-wire, single phase and 115 VAC  $\pm 7\%$ , 400 Hz  $\pm 5\%$  (380 to 420 Hz), 7.5Amp, two-wire, single phase at the Electronic Component Assembly (ECA) for operation of the system. The power returns are above ground and are not common grounded. A separate 115 VAC, 400 Hz, three-wire synchro command signal from the ship's vertical reference system is required to drive the Light Panel and Bar Assembly (LPBA) (Synchro Control Transmitter, type 18CX4, with a ratio of synchro angle input to bar displacement of two electrical degrees for each degree of actual roll). These input signals are also connected in the ECA. The HRS consists of three major subassemblies.

**(1) Indicator Stabilization Data.** The Indicator Stabilization Data (ISD) is located on the ship's centerline, facing aft, above the hangar structure. It includes the electromechanical drive, which positions the LPBA so that it remains parallel to the natural horizon. The LPBA is ten feet long and is illuminated throughout its length by green, electro-luminescent panels mounted on the aft face. A warning lamp assembly is located on top of the ISD. It is a red globe, navigational-type light that is designed to illuminate in the event of a system malfunction or failure to provide a visual warning to the pilot.

**(2) Electronic Component Assembly.** The ECA contains the electronic servo control circuitry primary power, signal, and operating controls. Its function is to provide the electrical signals to drive the LPBA to the correct position. It is typically located in the hangar bay near the flight control area.

**(3) Control Indicator.** The Control Indicator (CI) contains power and operating controls with status indicators. These controls are duplicated in the ECA; however, the CI has primary control with override capability and is mounted in the Helicopter Control Station (HCS).

| ASSEMBLY              | PART<br>NUMBER        | DIMENSIONS (INCHES)<br>HEIGHT - WIDTH - DEPTH |       |      | WEIGHT<br>(POUNDS) |
|-----------------------|-----------------------|---|-------|------|--------------------|
| ISD (less LPBA)       | 212601-2              | 19.1  | 20.4  | 28.5 | 136                |
| LPBA                  | 212689                | 5.0   | 120.0 | 5.4  | 65                 |
| Warning Lamp          | 212784                | 8.0   | 5.5   | 5.3  | 4                  |
| Electronic Components | 212602-2<br>212602-3* | 17.0  | 17.0  | 9.6  | 45                 |
| Control-Indicator     | 212603-2<br>212603-3* | 8.2   | 9.4   | 4.8  | 6                  |

\* Indicates a new part number after incorporation of Launch and Recovery Change 61.

**d. Flight Deck Status and Signaling System.** The FDSSS consists of the following subassemblies:

**(1) Operations Request Panel.** The Operations Request Panel is comprised of a launch and recovery sequence switch that enables the operator to request and receive authorizations. The panel also provides the CIC and Bridge Panel with indication of the status of launch or recovery and other related helicopter operations. The deck status and wave-off lights are also controlled and monitored from this panel.

**(2) Interface Control Unit.** The Interface Control Unit contains the control circuit components including the Diode Board Assembly. It also provides for the interconnection of the FDSSS with the Wave-Off Master Control Panel, the RAST Control Console, and the Deck Status Light.

**(3) Bridge and Combat Information Center Response Panels.** The Bridge and CIC Response Panels are located in the ship's bridge and CIC. The panels provide the capability for either or both locations to authorize, monitor, and control helicopter operations. The panel is comprised of lights that indicate the stage or sequence of the helicopter operations, and lights that indicate flight deck status and wave-off light illumination.

| <b>NOMEN-<br/>CLATURE</b>    | <b>PART<br/>NUMBER</b>   | <b>QTY</b> | <b>DIMENSIONS (INCHES)<br/>HEIGHT - WIDTH - DEPTH</b> |      |     | <b>WEIGHT<br/>(POUNDS)</b> |
|------------------------------|--------------------------|------------|---|------|-----|----------------------------|
| Operations<br>Request Panel  | 612060-1<br>621060-21*   | 1          | 8.0   | 11.8 | 7.3 | 12                         |
| Interface Control<br>Unit    | 621062-1<br>621062-11**  | 1          | 17.5  | 15.0 | 6.1 | 20                         |
| Bridge/CIC<br>Response Panel | 621061-1<br>621061-11*** | 2          | 7.0   | 11.0 | 7.3 | 5                          |

\* Indicates new part number after incorporation of Service Change 26.

\*\* Indicates new part number after incorporation of Service Change 26 and 29.

\*\*\* Indicates new part number after incorporation of Service Change 26 and 31.

**e. Wave-Off Light.** The assemblies that comprise the WOL, together with their unit numbers, are as follows:

**(1) Master Control Panel Assembly (G100).** The Master Control Panel Assembly is bulkhead mounted in the flight control area. This panel is the signal processing, distribution, and control center for the WOL system. The panel contains the monitor, flasher-driver, extender circuit cards, step-down transformer, and terminal boards used for the system interconnecting wire terminations.

**(2) Remote Panel Assembly (G200, G200A).** Remote Panel Assembly G200 is installed on the ship's bridge and G200A in the flight control area. Each contain a switch that when pressed, energizes the wave-off lights. The units also contain a dimmer circuit

board assembly and a terminal board used for system wiring interconnection. Remote Panels are used with the -1 system only.

**(3) Junction Box Assembly (G300, G300A).** The Junction Box Assemblies are identical units that are mounted on each side of the hangar door. They provide a remote location for connecting a hand held portable switch.

**(4) Junction Box Assembly (G400).** The Junction Box Assembly provides a means to connect the cable from the Master Control Panel with the WOL cables. It is located with the WOL Assemblies.

**(5) Wave-Off Light Assembly (G500, G500A).** The WOLs are identical units and are mounted one on each side of the SGSI platform.

| ASSEMBLY             | UNIT<br>NUMBER | DIMENSIONS (INCHES) |                 |       | WEIGHT<br>(POUNDS) |
|----------------------|----------------|---------------------|-----------------|-------|--------------------|
|                      |                | HEIGHT              | WIDTH           | DEPTH |                    |
| Master Control Panel | G100           | 15.0                | 11.5            | 7.0   | 35                 |
| Remote Panel         | G200, G200A    | 6.5                 | 5.4             | 4.5   | 10                 |
| Junction Box         | G300, G300A    | 4.1                 | 4.1             | 3.1   | 2                  |
| Junction Box         | G400           | 7.1                 | 4.1             | 4.6   | 10                 |
| Wave-Off Light       | G500, G500A    | 22.0                | (10.0 diameter) |       | 20                 |

**3. New Development Introduction.** The five VLA Systems addressed in this NTSP are currently installed and in use aboard Air Capable Ships and will be installed on new construction Air Capable Ships, as applicable, during construction. VLA Systems are new production equipment.

#### **4. Significant Interfaces**

**a. Helicopter Operations Surveillance System.** The HOSS may, depending on class of ship, interface with the communication system between the helicopter, bridge, and CIC to enable the HOSS to record the audio signals between the pilot, LSO, and Tactical Action Officers.

**b. Stabilized Glide Slope Indicator.** The SGSI interfaces with ship's electrical and gyro pitch and roll reference systems.

**c. Horizon Reference Set.** The HRS interfaces with ship's electrical and gyro roll reference systems.



**d. Flight Deck Status and Signaling System.** The FDSSS interfaces with the LSO RAST Control Station (only on LAMPS MK III ships), WOLs, and ship's electrical systems.

**e. Wave-Off Light.** The WOL interfaces with the FDSSS (only on LAMPS MK III ships) and ship's electrical systems.

**5. New Features, Configurations, or Material.** Not Applicable (NA)

## **H. CONCEPTS**

### **1. Operational Concept**

**a. Helicopter Operations Surveillance System.** The HOSS equipment is manned and operated by Interior Communications Electricians (IC) during all helicopter operations.

**b. Stabilized Glide Slope Indicator.** The SGSI is activated during flight operations. After activation, no operator action is required.

**c. Horizon Reference Set.** An LSO operates the HRS during flight quarters.

**d. Flight Deck Status and Signaling System.** The, FDSSS is operated during flight quarters by the Helicopter Control Officer or LSO.

**e. Wave-Off Light.** When activated by the LSO, the WOLs begin to flash, providing a visual indication to the pilot to abort the landing attempt and initiate a new landing approach.

**2. Maintenance Concept.** The maintenance concept for all the VLA Systems contained in this NTSP follows the direction and guidance outlined in the Naval Ships Maintenance, Material, and Management Program Manual 4790.4 (series).

**a. Helicopter Operations Surveillance System.** The HOSS maintenance is based on two levels of repair, organizational and depot. HOSS components are designed to facilitate rapid fault isolation and verification.

**(1) Organizational.** Organizational level maintenance of the HOSS is performed by ICs with Navy Enlisted Classification (NEC) 4746, Closed Circuit Television Technician.

**(a) Preventive Maintenance.** Preventive Maintenance (PM) is performed at specified intervals in accordance with established Maintenance Requirement Cards (MRC). PM includes visual inspection, cleaning, alignment adjusting, and operational and functional testing.

**(b) Corrective Maintenance.** Corrective Maintenance (CM) consists of fault isolation, removal, and replacement of Weapon Replaceable Assemblies (WRA) and Shop Replaceable Assemblies (SRA).

**(2) Intermediate.** NA

**(3) Depot.** Depot level maintenance is performed at Naval Air Warfare Center Aircraft Division Lakehurst (NAWCADLKE), New Jersey. The maintenance philosophy behind HOSS depot maintenance is to perform overhaul and repair of all circuit boards and subassemblies; rework of all severely damaged or corroded equipment, and the repair and calibration of all equipment beyond organizational level capabilities.

**(4) Interim Maintenance.** Interim Maintenance support for HOSS was provided by the NAWCADLKE, through their Fleet Technical Services and Logistics (FTS&L) Division, prior to the HOSS Material Support Date (MSD) of second quarter FY95.

**(5) Life Cycle Maintenance Plan.** NAWCADLKE provides necessary engineering technical services through their FTS&L Division. The FTS&L Division is available upon request, and provides technical assistance as required. Representatives also provide any necessary certification testing and inspections required for the HOSS during or following ship overhaul periods.

**b. Stabilized Glide Slope Indicator.** The SGSI System maintenance plan (SSIED MP No. 010-79, Approved 16 March 1981) is based on two levels of maintenance, organizational and depot.

**(1) Organizational Level.** Organizational level maintenance is performed by ship's ICs, Electrician's Mates (EM), or Electronics Technicians (ET) with NEC 4758 and includes both PM and CM.

**(a) Preventive Maintenance.** PM actions include cleaning, inspection, lubrication, and operational and functional testing of SGSI units.

**(b) Corrective Maintenance.** CM consists of functional testing, fault isolation, subassembly repair, and the removal and replacement of scheduled overhaul components.

**(2) Intermediate Level.** NA

**(3) Depot Level.** Depot level maintenance of the SGSI consists of repair of assemblies that are not within the capability of the ship's force, and scheduled overhaul of the Gyro Assembly and Glide Slope Indicator Subassembly.

**(4) Interim Maintenance.** NA

**(5) Life Cycle Maintenance Plan.** The SGSI system is to be overhauled by the depot at a three to five year interval coinciding with the ship's major overhaul period.

**c. Horizon Reference Set.** As documented by the HRS Maintenance Plan, NAWCADLKE-M84096008, approved 15 October 1996, the HRS maintenance concept conforms to the maintenance concept, procedures, and capabilities described in the Consolidated Ships Maintenance Plan (CSMP), which prescribes three levels of maintenance, organizational, intermediate, and depot.

**(1) Organizational Level.** Maintenance of the HRS is performed by EMs with NEC 4673, LAMPS MK III RAST/HRS Electrical Maintenceman, and includes both PM and CM.

**(a) Preventive Maintenance.** PM includes cleaning, inspection, corrosion control, lubrication, functional checkout, and scheduled component removal as required by the applicable MRCs.

**(b) Corrective Maintenance.** CM consists of operational and functional tests, fault isolation, and unit repair by assembly, subassembly, component, or piece-part replacement.

**(2) Intermediate Level.** Condition-based modular replacement of selected WRAs and SRAs are performed by ashore and afloat Intermediate Maintenance Activity personnel during scheduled intermediate maintenance availability periods. Intermediate level maintenance is performed aboard tender ships, Ships Intermediate Maintenance Activities, and Ship Repair Facilities.

**(3) Depot Level.** Depot level maintenance consists of repair and refurbishment of WRAs and SRAs beyond the capability of intermediate level maintenance. Depot level maintenance of the HRS servomotor is accomplished through commercial repair.

**(4) Interim Maintenance.** NA

**(5) Life Cycle Maintenance Plan.** Progressive refurbishment is the key to the Life Cycle Maintenance Plan strategy, which is predicated on a seven to ten year ship's operating cycle. The strategy is based on phased modular replacement before wear-out or failure. Selected equipment is programmed for modular replacement before failure, as determined by the Logistic Support Analysis (LSA) failure rates over a 30-year period, thereby reducing ships force workload by accomplishing required maintenance during PM periods.

**d. Flight Deck Status and Signaling System.** Maintenance of FDSSS is performed in accordance with the FDSSS Maintenance Plan (NAWCADLKE-M84096009, approved 15 October 1996). All FDSSS maintenance is performed at the organizational level.

**(1) Organizational Level.** Organizational level maintenance is performed by EMs with NEC 4758 and includes both PM and CM.

**(a) Preventive Maintenance.** PM consists of performing a pre-operational test on the system daily when operating, a more comprehensive system test monthly, and a semi-annual comprehensive inspection.

**(b) Corrective Maintenance.** CM procedures include fault isolation down to the lowest level repairable, removal and replacement of failed components, and system checkout.

**(2) Intermediate.** NA

**(3) Depot.** NA

**(4) Interim Maintenance.** NA

**(5) Life Cycle Maintenance Plan.** NA

**e. Wave-Off Light.** The WOL System Maintenance Plan (SSIED MP No. 003-82 approved 13 May 1982) is based on two levels of maintenance, organizational and depot.

**(1) Organizational Level.** Organizational level maintenance is performed by ICs with NEC 4758 and includes both PM and CM.

**(a) Preventive Maintenance.** PM includes cleaning, inspection, and functional testing of units making up the WOL System.

**(b) Corrective Maintenance.** CM includes functional testing, fault isolation to a failed component, subassembly removal, repair, and replacement.

**(2) Intermediate Level.** NA

**(3) Depot Level.** Repair actions beyond the capability of the ship's force are performed at designated depot level facilities.

**(4) Interim Maintenance.** NA

**(5) Life Cycle Maintenance Plan.** NA

### **3. Manning Concept**

#### **a. Helicopter Operations Surveillance System**

**(1) Watch Station Requirements.** The HOSS is manned and operated by the IC assigned to CIC during helicopter operations and General Quarters (GQ) as follows:

| <b>STATION<br/>TITLE</b> | <b>SKILL<br/>IDENTIFIER</b> | <b>GENERAL<br/>QUARTERS<br/>MANNING</b> | <b>FLIGHT<br/>QUARTERS<br/>MANNING</b> |
|--------------------------|-----------------------------|---|--|
| CIC                      | IC2                         | 1                                       | 1                                      |

**(2) Maintenance Workload.** HOSS maintenance is performed by the same ICs that maintain the ship's Information, Training, and Entertainment Closed Circuit Television systems. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE.

| <b>SKILL<br/>IDENTIFIER</b> | <b>PM</b>   | <b>CM</b>   |
|-----------------------------|-------------|-------------|
| IC2, NEC 4746               | 0.00        | 0.01        |
| IC3, NEC 4746               | 0.03        | 0.02        |
| ICFN                        | 0.05        | 0.00        |
| <b>TOTALS</b>               | <b>0.08</b> | <b>0.03</b> |

**(3) Recommended Manpower Requirements.** The following manpower currently onboard Air Capable Ships is sufficient to operate and maintain the HOSS:

| <b>SKILL<br/>IDENTIFIER</b> | <b>QUANTITY</b> |
|-----------------------------|-----------------|
| IC2, NEC 4746               | 1               |
| IC3, NEC 4746               | 1               |
| ICFN                        | 1               |

#### **b. Stabilized Glide Slope Indicator**

**(1) Watch Station Requirements.** There are no watch station requirements for the SGSI. No further operator action is required after activation.

**(2) Maintenance Workload.** ICs, EMs, or ETs with NEC 4758 are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

| SKILL IDENTIFIER     | PM          | CM          |
|----------------------|-------------|-------------|
| IC3/EM3/ET3 NEC 4758 | 0.46        | 0.14        |
| ICFN/EMFN/ETFN       | 0.35        | 0.14        |
| <b>TOTALS</b>        | <b>0.81</b> | <b>0.28</b> |

**(3) Recommended Manpower Requirements.** The following manpower currently onboard Air Capable Ships is sufficient to maintain the SGSI.

| SKILL IDENTIFIER      | QUANTITY |
|-----------------------|----------|
| IC3/EM3/ET3, NEC 4758 | 1        |
| ICFN/EMFN/ETFN        | 1        |

### c. Horizon Reference Set

**(1) Watch Station Requirements.** Operation of the HRS is accomplished during Flight Quarters and GQ by LAMPS Detachment LSOs. The LSO is a collateral duty assignment.

| STATION TITLE | SKILL IDENTIFIER           | GENERAL QUARTERS MANNING | FLIGHT QUARTERS MANNING |
|---------------|----------------------------|--------------------------|-------------------------|
| LSO           | O-2 through O-4, NOBC 1310 | 1                        | 1                       |

**(2) Maintenance Workload.** Ships company EMs are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

| <b>SKILL IDENTIFIER</b> | <b>PM</b>   | <b>CM</b>   |
|-------------------------|-------------|-------------|
| EM2, NEC 4673           | 0.02        | 0.07        |
| EM3, NEC 4673           | 3.75        | 0.07        |
| EMFN                    | 3.63        | 0.0         |
| <b>TOTALS</b>           | <b>7.40</b> | <b>0.14</b> |

**(3) Recommended Manpower Requirements.** The following manpower currently aboard Air Capable Ships is sufficient to maintain the HRS:

| <b>SKILL IDENTIFIER</b> | <b>QUANTITY</b> |
|-------------------------|-----------------|
| EM2, NEC 4673           | 1               |
| EM3, NEC 4673           | 1               |
| ICFN                    | 1               |

#### **d. Flight Deck Status and Signaling System**

**(1) Watch Station Requirements.** Operation of the FDSSS is accomplished during Flight Quarters and GQ by LAMPS Detachment LSOs. The LSO is a collateral duty assignment.

| <b>STATION TITLE</b> | <b>SKILL IDENTIFIER</b>    | <b>GENERAL QUARTERS MANNING</b> | <b>FLIGHT QUARTERS MANNING</b> |
|----------------------|----------------------------|---------------------------------|--------------------------------|
| LSO                  | O-2 through O-4, NOBC 1310 | 1                               | 1                              |

**(2) Maintenance Workload.** ICs, EMs, or ETs are responsible for the maintenance of the FDSSS. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

| <b>SKILL IDENTIFIER</b>  | <b>PM</b>   | <b>CM</b>   |
|--------------------------|-------------|-------------|
| IC3/EM3/ET3, NEC 4758    | 0.25        | 0.02        |
| ICFN/EMFN/ETFN, NEC 4758 | 0.27        | 0.02        |
| <b>TOTALS</b>            | <b>0.52</b> | <b>0.04</b> |

**(3) Recommended Manpower Requirements.** The following manpower currently aboard Air Capable Ships is sufficient to operate and maintain the HRS:

| <b>SKILL IDENTIFIER</b> | <b>QUANTITY</b> |
|-------------------------|-----------------|
| IC3/EM3/ET3, NEC 4758   | 1               |
| ICFN/ETFN/ETFN          | 1               |

**e. Wave-Off Light**

**(1) Watch Station Requirements.** Operation of the WOL is accomplished during Flight Quarters and GQ by LAMPS Detachment LSOs. The LSO is a collateral duty assignment.

| <b>STATION<br/>TITLE</b> | <b>SKILL IDENTIFIER</b>    | <b>GENERAL<br/>QUARTERS<br/>MANNING</b> | <b>FLIGHT<br/>QUARTERS<br/>MANNING</b> |
|--------------------------|----------------------------|---|--|
| LSO                      | O-2 through O-4, NOBC 1310 | 1                                       | 1                                      |

**(2) Maintenance Workload.** ICs, EMs, or ETs are responsible for maintenance of the SGSI. The estimated maintenance man-hours per week listed below were provided by NAWCADLKE:

| <b>SKILL IDENTIFIER</b> | <b>PM</b>   | <b>CM</b>   |
|-------------------------|-------------|-------------|
| IC3/EM3/ET3, NEC 4758   | 0.03        | 0.03        |
| ICFN/EMFN/ETFN          | 0.03        | 0.03        |
| <b>TOTALS</b>           | <b>0.06</b> | <b>0.06</b> |



**(3) Recommended Manpower Requirements.** The following manpower currently aboard Air Capable Ships is sufficient to maintain the WOL:

| SKILL IDENTIFIER      | QUANTITY |
|-----------------------|----------|
| IC3/EM3/ET3, NEC 4673 | 1        |
| ICFN/ETFN/ETFN        | 1        |

**4. Training Concept.** The objective of the VLA training concept is to provide the fleet with proficient VLA operators and maintainers. All five VLA Systems are currently in fleet use. Follow-on training for operators and maintainers has been established for all systems.

**a. Initial Training.** All initial training required to support the VLA Systems addressed in this NTSP has been completed.

**b. Follow-On Training**

**(1) Operator**

**(a) Helicopter Operations Surveillance System.** The HOSS is operated by the same ICs that maintain the system. No formal operator training is required.

**(b) Stabilized Glide Slope Indicator.** There are no operator training requirements associated with SGSI.

**(c) Horizon Reference Set.** Operation of the HRS is performed by, a LAMPS Detachment LSO. There is no formal LAMPS LSO training course. All LAMPS LSOs must be qualified helicopter pilots that complete a training package consisting of informal lectures, observation of launch and recovery operations, performance of launch and recovery operations, with assistance, and performance of launch and recovery operations without assistance. After completing the training package, LSOs are designated in writing by the Squadron Commanding Officer.

**(d) Flight Deck Status and Signaling System.** The FDSSS is operated by the same LAMPS detachment LSOs that operate the HRS. FDSSS training is included in the LAMPS LSO training package.

**(e) Wave-Off Light.** The WOL is operated by the same LAMPS detachment LSOs that operate the HRS and FDSSS. WOL training is included in the LAMPS LSO training package.

**(2) Maintenance**

**(a) Helicopter Operations Surveillance System**

**Title .....** **Shipboard Information Training and Entertainment Closed Circuit Television Maintenance**

**CIN .....** A-191-0010

**Model Manager....** Service School Command (SSC)

**Description.....** This course provides training to the Interior Communications Electrician, including:

- ° Closed Circuit Television System Operation
- ° Closed Circuit Television System Troubleshooting
- ° Closed Circuit Television System Preventive Maintenance
- ° Closed Circuit Television System Repair
- ° Shipboard 3-M Documentation

Upon completion, the student will be able to maintain the Closed Circuit Television Systems under limited supervision.

**Location .....** SSC Great Lakes, Illinois

**Length.....** 12 days

**RFT date .....** Currently available

**Skill identifier .....** NEC 4746

**TTE/TD.....** Refer to element IV.A.1 for Technical Training Equipment (TTE). Training Device (TD) is NA.

**Prerequisite .....** A-623-0105, Interior Communications Electrician Class A

#### **(b) Stabilized Glide Slope Indicator**

**Title .....** **Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance**

**CIN .....** C-670-2013

**Model Manager....** MTU 3040 NAMTRAU Norfolk

**Description.....** This course provides training to the Electrician's Mate, Electronics Technician, or Interior Communications Electrician, including:

- ° SGSI Troubleshooting and Repair
- ° WOL Troubleshooting and Repair
- ° FDSSS Troubleshooting and Repair
- ° Shipboard 3-M Documentation
- ° Flight Deck Safety Precautions

|                        |   |
|------------------------|---|
|                        | Upon completion, the student will be able to maintain, troubleshoot, and repair the SGSI, WOLS, and FDSSS at the journeyman level under limited supervision.  |
| Locations .....        | ° MTU 3040 NAMTRAU Norfolk<br>° MTU 3041 NAMTRAU North Island   |
| Length .....           | 23 days   |
| RFT date .....         | Currently available   |
| Skill identifier ..... | NEC 4758  |
| TTE/TD .....           | Refer to element IV.A.1 for TTE. TD is NA.  |
| Prerequisites .....    | ° EM: A-662-0159, Electrician's Mate A School Pipeline<br>° ET: A-100-0138, Electronics Technician Core A School<br>° A-100-0140, Electronics Technician Strand A School<br>° IC: A-623-0105, Interior Communications Electrician Class A |

### (c) Horizon Reference Set

|                        |  |
|------------------------|--|
| <b>Title .....</b>     | <b>LAMPS MK III RAST Electrical Technician</b>   |
| CIN .....              | K-652-2204   |
| Model Manager....      | Fleet Training Center (FTC) Norfolk  |
| Description .....      | This course provides training to the Electrician's Mate, including:<br>° RAST System A/W 42U-1(V) Troubleshooting<br>° RAST System A/W 42U-1 Repair and Maintenance<br>° HRS A/W 37A-1 Troubleshooting<br>° HRS A/W 37A-1 Repair and Maintenance<br>Upon completion, the student will be able to perform maintenance on the LAMPS MK III RAST under limited supervision. |
| Locations .....        | ° FTC Norfolk<br>° FTC San Diego   |
| Length .....           | 33 days  |
| RFT date .....         | Currently available  |
| Skill identifier ..... | NEC 4673   |
| TTE/TD .....           | Refer to element IV.A.1 for TTE. TD is NA.   |
| Prerequisite .....     | A-662-0159, Electrician's Mate A School Pipeline   |

**(d) Flight Deck Status and Signaling System.** The FDSSS is maintained by the same ICs, EMs, or ETs that maintain the SGSI and WOL. All applicable maintenance training requirements are covered in, course *C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance*.

**(e) Wave-Off Light.** The WOL is maintained by the same ICs, EMs, or ETs that maintain the SGSI and HRS. All applicable maintenance training requirements are covered in, course *C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light System Maintenance*.

### c. Student Profiles

| SKILL IDENTIFIER | PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS  |
|------------------|--|
| IC 4746, 4758    | o A-623-0105, Interior Communications Electrician Class A  |
| EM 4673          | o A-662-0159, Electrician's Mate A School Pipeline   |
| ET 4758          | o A-100-0138, Electronics Technician Core A School<br>o A-100-0140, Electronics Technician Strand A School |

**d. Training Pipelines.** Replacement Pilot training courses for the AH-1W, UH-1N, SH-3D, SH-3H, CH-46D, CH-46E, RH-53D, CH-53E, MH-53E, SH-60B, SH-60F, HH-60H, H-60A, H-60D, H-60G, H-60K, CH-47D, MH-47E, MH-60, OH-58D, and AH-64 require updating any time new VLA equipment is installed or existing equipment is modified.

## I. ONBOARD (IN-SERVICE) TRAINING

### 1. Proficiency or Other Training Organic to the New Development

**a. Maintenance Training Improvement Program.** NA

**b. Aviation Maintenance In-Service Training.** NA

**c. Aviation Maintenance Training Continuum System.** NA

**2. Personnel Qualification Standards.** Personnel Qualification Standards (PQS) 43219-C, Helicopter Operations for Air Capable Ships, has been updated to reflect the latest changes in VLA equipment. No PQS exists or is planned for maintenance of VLA Systems.

**3. Other Onboard or In-Service Training Packages.** Each class of Air Capable Ships has an individualized helicopter operations training package. All personnel involved in

helicopter launch and recovery operations must complete the training package and pass a locally prepared test before being certified for their flight quarters, station.

Junior IC, EM, and ET personnel gain VLA maintenance experience through On-The-Job Training (OJT). OJT consists of performing on equipment PM and limited CM under the direct guidance of a senior Petty Officer who has completed advanced training on that particular system.

## J. LOGISTICS SUPPORT

### 1. Manufacturer and Contract Numbers

| SYSTEM | CONTRACT NUMBER   | MANUFACTURER                  | ADDRESS   |
|--------|---|-------------------------------|---|
| HOSS   | N68335-90-C-0547  | Kongsberg Simrad Incorporated | San Marcos, CA  |
| SGSI   | N00140-88-C-RL32  | T. M. Systems                 | 345 Railroad Avenue<br>Bridgeport, CT 06604                     |
| HRS    | Part of Helicopter Landing Systems<br>Contract:<br>N00019-01-D-0088 | Indal Technologies            | 3570 Hawkestone Road<br>Mississauga, Ontario,<br>Canada L5C 2V8 |
| FDSSS  | Part of Helicopter Landing Systems<br>Contract:<br>N00019-01-D-0088 | Indal Technologies            | 3570 Hawkestone Road<br>Mississauga, Ontario,<br>Canada L5C 2V8 |
| WOL    | N68355-02-M-3120  | EMW Incorporated              | 10 West Second Avenue<br>Lititz, PA 17543                       |

### 2. Program Documentation

**a. Helicopter Operations Surveillance System.** The HOSS Integrated Logistics Support Plan (ILSP), NAEC-MISC-91-OR199, was approved in January 1987.

**b. Stabilized Glide Slope Indicator.** The SGSI Maintenance Plan, SSIED MP 010-79, was approved in March 1981. A SGSI ILSP does not exist, nor is one currently planned.

**c. Horizon Reference Set.** The HRS ILSP, NAEC-LR-003:A, was approved in April 1982. The HRS Maintenance Plan, NAWCADLKE M84096008, was approved in October 1996.

**d. Flight Deck Status and Signaling System.** The FDSSS ILSP, NAEC-MISC-91-OR107, was approved in April 1992. The FDSSS Maintenance Plan NAWCADLKE M84096009 was approved in October 1996.

**e. Wave-Off Light.** The WOL Maintenance Plan, SSIED MP 003-82, was approved in May 1982. A WOL ILSP does not exist, nor is one currently planned.

**f. Other.** In addition to the ILSPs listed above, ILSP NAEC-MISC-91-OR024, LAMPS MK III Visual Landing Aids was approved in June 1980.

**3. Technical Data Plan.** All Technical Manuals, MRCs, Planned Maintenance System Work Packages, and Operator Manuals required to support the VLA Systems addressed in this NTSP have been completed and distributed. Technical Data required for new construction ships will be obtained from the Naval Air Technical Data and Engineering Service Command via the automatic distribution list. A listing of all technical data required to support VLA Systems training is available in element IV.B.3 of this NTSP.

**4. Test Sets, Tools, and Test Equipment.** All test sets, tools, and test equipment required to support fleet maintenance of the VLA Systems addressed in this NTSP have been delivered. Test sets, tools, and test equipment required onboard new construction ships are included in the ships' initial outfitting. All test sets, tools, and test equipment required to support VLA training, have been delivered.

**5. Repair Parts.** Supply support for all five VLA Systems addressed in this NTSP is provided through normal supply channels from the Navy Inventory Control Point Mechanicsburg, Pennsylvania, and Defense Logistics Agency supply centers.

**6. Human Systems Integration.** All five of the VLA systems are mature programs. All new design systems and software will address the human-machine interface for operators, maintainers, and support personnel. The design processes conformed to best standard human engineering practices as defined in existing human factors engineering design standards. All new hardware and software will minimize the requirement for special cognitive, physical, or sensory requirements of the operators, maintainers, or support personnel beyond those available in current Navy personnel resources. Maintenance training includes a blend of ICW and paper based instruction. Any future development of CBT, CAI and ICW training material will be sharable content object reference model compliant. A training effectiveness evaluation has not been performed and any of the five VLA systems. This system has no habitability impact. Manpower issues are covered in part II and III of this document. In its current state of design, all five of the VLA systems contain no explosive, radioactive, or carcinogenic materials. Toxic materials are present in small amounts and in forms that present no hazard during any phase of system ownership, including disposal. If the components were to be incinerated, limited amounts of corrosive vapors would be generated by the decomposition of wire insulation. This is common to all electrical/electronic equipment meeting the requirements to operate in the specified environments. Environmental and Occupational Safety and Health requirements meet federal, state, and local standards, regulations, and directives and are enforced by respective agencies, as applicable.

## K. SCHEDULES

**1. Installation and Delivery Schedules.** Schedule information was provided by NAWCADLKE. The installation of VLA Systems on all active Air Capable Ships has been completed. VLA Systems will be installed, as applicable, on all new construction Air Capable Ships during construction. Due to constantly changing shipyard schedules and material delivery schedule changes, an accurate installation schedule would be nearly impossible to maintain. Therefore, for the purpose of this NTSP, the installation schedules for HOSS, SGSI, HRS, FDSSS, and WOL were developed using the projected commissioning date as the installation date. Delivery of new VLA Systems to the shipyards will be coordinated by NAWCADLKE to minimize installation delays or long storage times prior to installation.

**a. Helicopter Operations Surveillance System.** HOSS will be installed on all new construction Amphibious Transport Dock (LPD) 17, class ships during construction. There is one HOSS per ship.

### INSTALLATION SCHEDULE

| LPD 17 CLASS SHIPS     | FY02 | FY03 | FY04 | FY05 | FY06 | FY07 | FY08 |
|------------------------|------|------|------|------|------|------|------|
| LPD 17 USS San Antonio | X    |      |      |      |      |      |      |
| LPD 18 USS New Orleans |      | X    |      |      |      |      |      |
| LPD 19 USS (Not Named) |      |      | X    |      |      |      |      |
| LPD 20 USS (Not Named) |      |      | X    |      |      |      |      |
| LPD 21 USS (Not Named) |      |      |      | X    |      |      |      |
| LPD 22 USS (Not Named) |      |      |      | X    |      |      |      |
| LPD 23 USS (Not Named) |      |      |      |      | X    |      |      |
| LPD 24 USS (Not Named) |      |      |      |      | X    |      |      |
| LPD 25 USS (Not Named) |      |      |      |      |      | X    |      |
| LPD 26 USS (Not Named) |      |      |      |      |      | X    |      |
| LPD 27 USS (Not Named) |      |      |      |      |      |      | X    |
| LPD 28 USS (Not Named) |      |      |      |      |      |      | X    |

**b. Stabilized Glide Slope Indicator.** The SGSI will be installed on all new construction Guided Missile Destroyers (DDG) 51 and LPD 17 class ships during construction. Construction of DDG 51 through DDG 88 has been completed. There is one SGSI per ship. The

installation schedule for SGSI aboard LPD 17 class ships is the same as for the HOSS illustrated above.

#### INSTALLATION SCHEDULE

| DDG 51 CLASS SHIPS      | FY02 | FY03 | FY04 | FY05 | FY06 | FY07 | FY08 |
|-------------------------|------|------|------|------|------|------|------|
| DDG 89 USS Mustin       | X    |      |      |      |      |      |      |
| DDG 90 USS Chaffee      |      | X    |      |      |      |      |      |
| DDG 91 USS Pinkney      |      | X    |      |      |      |      |      |
| DDG 92 USS Momsen       |      | X    |      |      |      |      |      |
| DDG 93 USS Chung-Hoon   |      |      | X    |      |      |      |      |
| DDG 94 USS (Not Named)  |      |      | X    |      |      |      |      |
| DDG 95 USS (Not Named)  |      |      | X    |      |      |      |      |
| DDG 96 USS (Not Named)  |      |      |      | X    |      |      |      |
| DDG 97 USS (Not Named)  |      |      |      | X    |      |      |      |
| DDG 98 USS (Not Named)  |      |      |      | X    |      |      |      |
| DDG 99 USS (Not Named)  |      |      |      |      | X    |      |      |
| DDG 100 USS (Not Named) |      |      |      |      | X    |      |      |
| DDG 101 USS (Not Named) |      |      |      |      | X    |      |      |
| DDG 102 USS (Not Named) |      |      |      |      |      | X    |      |
| DDG 103 USS (Not Named) |      |      |      |      |      | X    |      |
| DDG 104 USS (Not Named) |      |      |      |      |      | X    |      |
| DDG 105 USS (Not Named) |      |      |      |      |      |      | X    |
| DDG 106 USS (Not Named) |      |      |      |      |      |      | X    |
| DDG 107 USS (Not Named) |      |      |      |      |      |      | X    |

**c. Horizon Reference Set.** The HRS will be installed on new construction DDG 51 class ships during construction. There is one HRS per ship. The installation schedule for HRS is the same as the SGSI illustrated above.

**d. Flight Deck Status and Signaling System.** The WOL will be installed on new construction DDG 51 and LPD 17 class ships during construction. There is one FDSSS per ship. The installation schedule for FDSSS is the same as the HOSS and SGSI illustrated above.



**e. Wave-Off Light.** The WOL will be installed on new construction DDG 51 and LPD 17 class ships during construction. There is one WOL per ship. The installation schedule for WOL is the same as the HOSS and SGSI illustrated above.

**2. Ready For Operational Use Schedule.** The installation of VLA Systems on all active Air Capable Ships has been completed and the systems are in operational use. VLA Systems installed on new construction Air Capable Ships will be ready for operational use upon completion of system certification during sea trials.

### **3. Time Required to Install at Operational Sites**

**a. Helicopter Operations Surveillance System.** Time required for HOSS installation is approximately one week.

**b. Stabilized Glide Slope Indicator.** Time required for SGSI installation is approximately two months.

**c. Horizon Reference Set.** Time required for HRS installation is approximately one week.

**d. Flight Deck Status and Signaling System.** The FDSSS is installed as a package in conjunction with the HRS and requires a total of approximately one week.

**e. Wave-Off Light.** Time required for WOL installation is approximately four weeks.

### **4. Foreign Military Sales and Other Source Delivery Schedule**

**a. Helicopter Operations Surveillance System.** Delivery of HOSS units for use aboard U.S. Coast Guard vessels was completed in FY95.

**b. Stabilized Glide Slope Indicator.** All SGSI FMS deliveries were completed in FY94.

**c. Horizon Reference Set.** All HRS FMS deliveries have been completed with the exception of one HRS delivery to Spain scheduled for FY03.

**d. Flight Deck Status and Signaling System.** All FDSSS FMS deliveries have been completed with the exception of one FDSSS delivery to Spain scheduled for FY03.

**e. Wave-Off Light.** All WOL FMS deliveries were completed in FY94.

### **5. Training Device and Technical Training Equipment Delivery Schedule**

**a. Training Device.** NA

## **b. Technical Training Equipment**

**(1) Helicopter Operations Surveillance System.** Refer to element IV.A. for a detailed list of TTE required to support HOSS maintenance training. All required TTE has been delivered.

**(2) Stabilized Glide Slope Indicator.** Complete SGSI systems are installed at NAMTRAU 3040 Norfolk and NAMTRAU 3041 North Island.

**(3) Horizon Reference Set.** Complete HRSs are installed at FTC Norfolk and FTC San Diego.

**(4) Flight Deck Status and Signaling System.** Complete FDSSs are installed at NAMTRAU 3040 Norfolk and NAMTRAU 3041 North Island.

**(5) Wave-Off Light.** Complete WOL systems are installed at NAMTRAU 3040 Norfolk and NAMTRAU 3041 North Island.

## **L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA**

## **M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS**

| <b>DOCUMENT<br/>OR NTSP TITLE</b>   | <b>DOCUMENT<br/>OR NTSP NUMBER</b> | <b>PDA<br/>CODE</b> | <b>STATUS</b>      |
|---|------------------------------------|---------------------|--------------------|
| Integrated Launch and Recovery Television Surveillance System (ILARTS)              | A-50-8401/A                        | AIR-551             | Approved<br>Aug 84 |
| Aircraft Launch and Recovery Equipment (ALRE) Quality Assurance/Maintenance Program | A-50-8509C/D                       | AIR-552             | Draft<br>Jan 95    |
| Fresnel Lens Optical Landing System (FLOLS)   | A-50-8409A/D                       | PMA251              | Draft<br>May 97    |
| Landing Signal Officer (LSO) Training System  | A-50-8418B/A                       | PMA251              | Approved<br>Jul 92 |
| Light Airborne Multipurpose System (LAMPS) MK III                                   | A-50-7702D/A                       | PMA299              | Draft<br>Aug 01    |
| Aircraft Carrier Visual Landing Aid Systems   | A-50-9202A/A                       | PMA251              | Approved<br>Nov 99 |

| <b>DOCUMENT<br/>OR NTSP TITLE</b>   | <b>DOCUMENT<br/>OR NTSP NUMBER</b> | <b>PDA<br/>CODE</b> | <b>STATUS</b>      |
|---|------------------------------------|---------------------|--------------------|
| Amphibious Assault Ship Visual Landing Aid Systems                                | A-50-9203A/A                       | PMA251              | Approved<br>Jul 00 |
| AH-1W Aircraft  | A-50-8520D/A                       | PMA267              | Approved<br>Mar 96 |
| CH-53E Helicopter   | A-50-7604G/A                       | PMA261              | Approved<br>Mar 01 |
| MH-60S Multi Mission Helicopter   | A-50-9902A/P                       | PMA299              | Proposed<br>Jun 02 |
| United States Marine Corps H-1 Helicopter Upgrade Program                         | A-50-9602/A                        | PMA267              | Approved<br>Jan 02 |
| MH-53E Helicopter   | A-50-8417D/A                       | PMA261              | Approved<br>Feb 02 |
| SH-60F Carrier Inner-Zone ASW Helicopter  | A-50-8508D/A                       | PMA299              | Approved<br>Aug 00 |
| RH-53D (Reserve) Helicopter   | A-50-8601C/D                       | PMA261              | Draft<br>Apr 95    |
| HH-60H Combat SAR-SW Support Helicopter   | A-50-8714B/A                       | PMA299              | Draft<br>Oct 93    |
| SH-2C Helicopter  | A-50-9303A/A                       | PMA299              | Approved<br>Jun 94 |
| HH/UH-1N Aircraft   | A-50-9404/A                        | PMA267              | Approved<br>Oct 94 |
| H-46 Helicopter   | A-50-9409A/A                       | PMA261              | Approved<br>May 01 |
| Horizon Reference Set System (HRS) Integrated Logistics Support Plan              | ILSP-LR-003:A                      | AIR-551             | Approved<br>Jun 87 |
| Flight Deck Status and Signaling System (FDSSS) Integrated Logistics Support Plan | NAEC-MISC-91-OR107                 | AIR-551             | Approved<br>Apr 82 |

| <b>DOCUMENT<br/>OR NTSP TITLE</b>  | <b>DOCUMENT<br/>OR NTSP NUMBER</b> | <b>PDA<br/>CODE</b> | <b>STATUS</b>      |
|--|------------------------------------|---------------------|--------------------|
| LAMPS MK III Visual Landing Aids<br>Integrated Logistics Support Plan                | NAEC-MISC-91-<br>OR024             | AIR-551             | Approved<br>Jun 80 |
| Helicopter Operations Surveillance System<br>(HOSS) Integrated Logistic Support Plan | NAEC-MISC-91-<br>OR199             | AIR-551             | Approved<br>Jan 87 |
| Wind Measuring and Indicating System<br>Maintenance Plan                             | SSIED MP 002-80                    | NAWCADLKE           | Approved<br>Nov 80 |
| Stabilized Glide Slope Indicator<br>Maintenance Plan                                 | SSIED MP 010-79                    | NAWCADLKE           | Approved<br>Mar 81 |
| Horizon Reference Set Maintenance Plan   | NAWCADLKE<br>M84096008             | NAWCADLKE           | Approved<br>Oct 96 |
| Flight Deck Status and Signaling System<br>Maintenance                               | NAWCADLKE<br>M84096009             | NAWCADLKE           | Approved<br>Oct 96 |
| Wave-Off Light Maintenance Plan  | SSIED MP 003-82                    | NAWCADLKE           | Approved<br>May 82 |

## **PART II - BILLET AND PERSONNEL REQUIREMENTS**

The following elements are not affected by the Air Capable Ship VLA Systems and, therefore, are not included in Part II of this NTSP:

### **II.A. Billet Requirements**

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

## II.A. BILLET REQUIREMENTS

**SOURCE OF SCHEDULE:** NAWCADLKE (AIR 3.4.5)  
**SOURCE OF MANPOWER:** TFFMS

**DATE:** May 2002  
**DATE:** Dec 2002

### II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

| ACTIVITY, UIC                  |       | PFYs | CFY03 | FY04 | FY05 | FY06 | FY07 |
|--------------------------------|-------|------|-------|------|------|------|------|
| OPERATIONAL ACTIVITIES - USN   |       |      |       |      |      |      |      |
| AGF 3 USS La Salle             | 07172 | 1    | 0     | 0    | 0    | 0    | 0    |
| AOE 3 USS Seattle              | 05848 | 1    | 0     | 0    | 0    | 0    | 0    |
| AOE 4 USS Detroit              | 20120 | 1    | 0     | 0    | 0    | 0    | 0    |
| AOE 6 USS Supply               | 21839 | 1    | 0     | 0    | 0    | 0    | 0    |
| AOE 8 USS Arctic               | 21907 | 1    | 0     | 0    | 0    | 0    | 0    |
| ARS 51 USS Grasp               | 21467 | 1    | 0     | 0    | 0    | 0    | 0    |
| ARS 53 USS Grapple             | 21441 | 1    | 0     | 0    | 0    | 0    | 0    |
| AS 39 USS Emory S. Land        | 20635 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 47 USS Ticonderoga          | 21281 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 48 USS Yorktown             | 21225 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 51 USS Thomas S. Gates      | 21344 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 55 USS Leyte Gulf           | 21388 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 56 USS San Jacinto          | 21389 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 58 USS Philippine Sea       | 21429 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 60 USS Normandy             | 21449 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 61 USS Monterey             | 21450 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 64 USS Gettysburg           | 21624 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 66 USS Hue City             | 21656 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 68 USS Anzio                | 21658 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 69 USS Vicksburg            | 21684 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 71 USS Cape St. George      | 21828 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 72 USS Vella Gulf           | 21829 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 963 USS Spruance            | 20574 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 968 USS Arthur W. Radford   | 20588 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 969 USS Peterson            | 20589 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 970 USS Caron               | 20590 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 977 USS Briscoe             | 20603 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 978 USS Stump               | 20604 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 982 USS Nicholson           | 20614 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 987 USS O'Bannon            | 20834 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 988 USS Thorn               | 20835 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 989 USS Deyo                | 20836 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 997 USS Hayler              | 21416 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 100 USS (New Construction) | 23152 | 0    | 0     | 0    | 1    | 0    | 0    |
| DDG 102 USS (New Construction) | 23161 | 0    | 0     | 0    | 0    | 1    | 0    |
| DDG 51 USS Arleigh Burke       | 21487 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 52 USS Barry               | 21660 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 55 USS Stout               | 21685 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 57 USS Mitscher            | 21687 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 58 USS LaBoon              | 21820 | 1    | 0     | 0    | 0    | 0    | 0    |

## II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

| ACTIVITY, UIC                             |       | PFYs | CFY03 | FY04 | FY05 | FY06 | FY07 |
|---|-------|------|-------|------|------|------|------|
| DDG 61 USS Ramage                         | 21823 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 64 USS Carney                         | 21923 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 66 USS Gonzalez                       | 21833 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 67 USS Cole                           | 21941 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 69 USS The Sullivans                  | 21942 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 71 USS Ross                           | 21945 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 72 USS Mahan                          | 21946 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 74 USS MC Faul                        | 21948 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 75 USS Donald Cook                    | 21949 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 78 USS Porter                         | 21952 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 79 USS Oscar Austin                   | 21953 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 80 USS Roosevelt                      | 21954 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 81 USS Winston S. Churchill           | 21955 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 82 USS Lassen                         | 21956 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 84 USS Bulkeley                       | 22992 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 86 USS Shoup                          | 22994 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 88 USS Preble                         | 22996 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 90 USS Chafee                         | 23155 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 92 USS (New Construction)             | 23146 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 94 USS (New Construction)             | 23148 | 0    | 1     | 0    | 0    | 0    | 0    |
| DDG 96 USS (New Construction)             | 23154 | 0    | 0     | 1    | 0    | 0    | 0    |
| DDG 98 USS (New Construction)             | 23150 | 0    | 0     | 1    | 0    | 0    | 0    |
| FFG 13 USS Samuel E. Morison              | 20966 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 14 USS Sides                          | 20967 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 28 USS Boone                          | 21053 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 29 USS Stephen W. Groves              | 21054 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 32 USS John L. Hall                   | 21057 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 36 USS Underwood                      | 21103 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 39 USS Doyle                          | 21106 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 40 USS Halyburton                     | 21107 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 42 USS Klankring                      | 21109 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 45 USS Dewert                         | 21197 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 47 USS Nicholas                       | 21199 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 49 USS Robert G. Bradley              | 21201 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 50 USS Taylor                         | 21231 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 52 USS Carr                           | 21233 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 53 USS Hawes                          | 21234 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 55 USS Elrod                          | 21236 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 56 USS Simpson                        | 21350 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 58 USS Samuel B. Roberts              | 21352 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 59 USS Kauffman                       | 21390 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 8 USS McInerney                       | 21032 | 1    | 0     | 0    | 0    | 0    | 0    |
| LCC 20 USS Mt. Whitney                    | 20001 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 12 USS Shreveport                     | 07195 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 13 USS Nashville                      | 07196 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 14 USS Trenton                        | 07200 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 15 USS Ponce                          | 07201 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 17 USS San Antonio (New Construction) | 07207 | 0    | 1     | 0    | 0    | 0    | 0    |
| LPD 19 USS (New Construction)             | 32421 | 0    | 0     | 1    | 0    | 0    | 0    |

## II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

| ACTIVITY, UIC                  |       | PFYs | CFY03 | FY04 | FY05 | FY06 | FY07 |
|--------------------------------|-------|------|-------|------|------|------|------|
| LPD 21 USS (New Construction)  | 3013A | 0    | 0     | 0    | 1    | 0    | 0    |
| LPD 23 USS (New Construction)  | 3015A | 0    | 0     | 0    | 0    | 1    | 0    |
| LPD 4 USS Austin               | 07175 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 36 USS Anchorage           | 07203 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 37 USS Portland            | 20012 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 41 USS Whidbey Island      | 21218 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 44 USS Gunston Hall        | 21422 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 46 USS Tortuga             | 21562 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 48 USS Ashland             | 21531 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 50 USS Carter Hall         | 21880 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 51 USS Oakhill             | 21958 | 1    | 0     | 0    | 0    | 0    | 0    |
| AGF 11 USS Coronado            | 07194 | 1    | 0     | 0    | 0    | 0    | 0    |
| AOE 1 USS Sacramento           | 05832 | 1    | 0     | 0    | 0    | 0    | 0    |
| AOE 10 USS Bridge              | 21979 | 1    | 0     | 0    | 0    | 0    | 0    |
| AOE 2 USS Camden               | 05833 | 1    | 0     | 0    | 0    | 0    | 0    |
| AOE 7 USS Rainier              | 21872 | 1    | 0     | 0    | 0    | 0    | 0    |
| ARS 50 USS Safeguard           | 21245 | 1    | 0     | 0    | 0    | 0    | 0    |
| ARS 52 USS Salvor              | 21468 | 1    | 0     | 0    | 0    | 0    | 0    |
| AS 40 USS Frank Cable          | 20865 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 49 USS Vincennes            | 21295 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 50 USS Valley Forge         | 21296 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 52 USS Bunker Hill          | 21345 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 53 USS Mobile Bay           | 21346 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 54 USS Antietam             | 21387 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 57 USS Lake Champlain       | 21428 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 59 USS Princeton            | 21447 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 62 USS Chancellorsville     | 21451 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 63 USS Cowpens              | 21623 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 65 USS Chosin               | 21625 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 67 USS Shiloh               | 21657 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 70 USS Lake Erie            | 21827 | 1    | 0     | 0    | 0    | 0    | 0    |
| CG 70 USS Port Royal           | 21830 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 964 USS Paul F. Foster      | 20575 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 965 USS Kinkaid             | 20576 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 966 USS Hewitt              | 20586 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 967 USS Elliot              | 20587 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 971 USS David R. Ray        | 20591 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 972 USS Oldendorf           | 20598 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 973 USS John Young          | 20599 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 975 USS O'Brien             | 20601 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 985 USS Cushing             | 20617 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 985 USS Fife                | 20838 | 1    | 0     | 0    | 0    | 0    | 0    |
| DD 992 USS Fletcher            | 20839 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 101 USS (New Construction) | 23151 | 0    | 0     | 0    | 1    | 0    | 0    |
| DDG 103 USS (New Construction) | 23165 | 0    | 0     | 0    | 0    | 1    | 0    |
| DDG 53 USS John Paul Jones     | 21313 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 54 USS Curtis Wilbur       | 21640 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 54 USS Ford                | 21235 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 56 USS John S. McCain      | 21686 | 1    | 0     | 0    | 0    | 0    | 0    |



## II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

| ACTIVITY, UIC                             |       | PFYs | CFY03 | FY04 | FY05 | FY06 | FY07 |
|---|-------|------|-------|------|------|------|------|
| DDG 59 USS Russell                        | 21821 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 62 USS Fitzgerald                     | 21824 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 65 USS Benfold                        | 21940 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 69 USS Milius                         | 21943 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 70 USS Hopper                         | 21944 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 73 USS Decatur                        | 21947 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 76 USS Higgins                        | 21950 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 77 USS O'Kane                         | 21951 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 83 USS Howard                         | 22999 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 85 USS McCampbell                     | 22993 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 87 USS Mason                          | 22995 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 89 USS Mustin                         | 22997 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 91 USS Pinckney                       | 23145 | 1    | 0     | 0    | 0    | 0    | 0    |
| DDG 93 USS (New Construction)             | 23147 | 0    | 1     | 0    | 0    | 0    | 0    |
| DDG 95 USS (New Construction)             | 23153 | 0    | 1     | 0    | 0    | 0    | 0    |
| DDG 97 USS (New Construction)             | 23149 | 0    | 0     | 1    | 0    | 0    | 0    |
| DDG 99 USS (New Construction)             | 23150 | 0    | 0     | 0    | 1    | 0    | 0    |
| FFG 12 USS George Philips                 | 20965 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 33 USS Jarrett                        | 21058 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 37 USS Crommelin                      | 21104 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 38 USS Curts                          | 21105 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 41 USS McClusky                       | 21108 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 43 USS Thach                          | 21110 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 45 USS De Wert                        | 21197 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 46 USS Rentz                          | 21198 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 48 USS Vandegrift                     | 21200 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 51 USS Gary                           | 21232 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 57 USS Ruben James                    | 21351 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 60 USS Rodney M. Davis                | 21391 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 61 USS Ingraham                       | 21430 | 1    | 0     | 0    | 0    | 0    | 0    |
| FFG 9 USS Wadsworth                       | 21033 | 1    | 0     | 0    | 0    | 0    | 0    |
| LCC 19 USS Blue Ridge                     | 05840 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 10 USS Juneau                         | 07184 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 18 USS New Orleans (New Construction) | 23168 | 0    | 1     | 0    | 0    | 0    | 0    |
| LPD 20 USS (New Construction)             | 3012A | 0    | 0     | 1    | 0    | 0    | 0    |
| LPD 22 USS (New Construction)             | 3014A | 0    | 0     | 0    | 1    | 0    | 0    |
| LPD 24 USS (New Construction)             | 23180 | 0    | 0     | 0    | 0    | 1    | 0    |
| LPD 26 USS (New Construction)             | 23182 | 0    | 0     | 0    | 0    | 0    | 1    |
| LPD 5 USS Ogden                           | 07176 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 6 USS Duluth                          | 07177 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 7 USS Cleveland                       | 07181 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 8 USS Dubuque                         | 07182 | 1    | 0     | 0    | 0    | 0    | 0    |
| LPD 9 USS Denver                          | 07183 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 39 USS Mount Vernon                   | 20014 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 42 USS Germantown                     | 21639 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 43 USS Fort McHenry                   | 21400 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 45 USS Comstock                       | 21452 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 47 USS Rushmore                       | 21530 | 1    | 0     | 0    | 0    | 0    | 0    |
| LSD 49 USS Harpers Ferry                  | 21852 | 1    | 0     | 0    | 0    | 0    | 0    |

## II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

| ACTIVITY, UIC                       |       | PFYs | CFY03 | FY04 | FY05 | FY06 | FY07 |
|-------------------------------------|-------|------|-------|------|------|------|------|
| LSD 52 USS Pearl Harbor             | 21959 | 1    | 0     | 0    | 0    | 0    | 0    |
| LST 1184 USS Frederick              | 20023 | 1    | 0     | 0    | 0    | 0    | 0    |
| MCS 12 USS Inchon                   | 20009 | 1    | 0     | 0    | 0    | 0    | 0    |
| <b>TOTAL:</b>                       |       | 172  | 4     | 5    | 5    | 4    | 2    |
| FLEET SUPPORT ACTIVITIES - USN      |       |      |       |      |      |      |      |
| MTU 3040 NAMTRAU Norfolk            | 66046 | 1    | 0     | 0    | 0    | 0    | 0    |
| Service School Command, Great Lakes | 30626 | 1    | 0     | 0    | 0    | 0    | 0    |
| Fleet Training Center, San Diego    | 61690 | 1    | 0     | 0    | 0    | 0    | 0    |
| MTU 3041 NAMTRAU North Island       | 66065 | 1    | 0     | 0    | 0    | 0    | 0    |
| <b>TOTAL:</b>                       |       | 4    | 0     | 0    | 0    | 0    | 0    |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|----------------------------------|---------|-----|------------------|---------------|---------------|
|                                  | OFF     | ENL |                  |               |               |
| OPERATIONAL ACTIVITIES - USN     |         |     |                  |               |               |
| AGF 3 USS La Salle, 07172        |         |     |                  |               |               |
| ACDU                             | 0       | 1   | IC1              | 4781          | 4758          |
|                                  | 0       | 1   | IC2              | 4777          | 4758          |
|                                  | 0       | 1   | IC3              | 4746          |               |
| ACTIVITY TOTAL:                  | 0       | 3   |                  |               |               |
| AOE 3 USS Seattle, 05848         |         |     |                  |               |               |
| ACDU                             | 0       | 1   | IC2              | 4758          |               |
|                                  | 0       | 1   | IC3              | 4746          | 9526          |
| ACTIVITY TOTAL:                  | 0       | 2   |                  |               |               |
| AOE 4 USS Detroit, 20120         |         |     |                  |               |               |
| ACDU                             | 0       | 1   | IC2              | 4758          |               |
|                                  | 0       | 1   | IC3              | 4746          | 9526          |
| ACTIVITY TOTAL:                  | 0       | 2   |                  |               |               |
| AOE 6 USS Supply, 21839          |         |     |                  |               |               |
| ACDU                             | 0       | 1   | IC1              | 4758          |               |
|                                  | 0       | 1   | IC2              | 4758          | 4727          |
|                                  | 0       | 1   | IC3              | 4746          |               |
| ACTIVITY TOTAL:                  | 0       | 3   |                  |               |               |
| AOE 8 USS Arctic, 21907          |         |     |                  |               |               |
| ACDU                             | 0       | 1   | IC1              | 4758          |               |
|                                  | 0       | 1   | IC2              | 4758          | 4727          |
|                                  | 0       | 1   | IC3              | 4746          |               |
| ACTIVITY TOTAL:                  | 0       | 3   |                  |               |               |
| ARS 51 USS Grasp, 21467          |         |     |                  |               |               |
| ACDU                             | 0       | 1   | IC3              | 4746          |               |
| ACTIVITY TOTAL:                  | 0       | 1   |                  |               |               |
| ARS 53 USS Grapple, 21441        |         |     |                  |               |               |
| ACDU                             | 0       | 1   | IC3              | 4746          |               |
| ACTIVITY TOTAL:                  | 0       | 1   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT        | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>AS 39 USS Emory S. Land, 20635</b>   |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 1   |                  |               |               |
| <b>CG 47 USS Ticonderoga, 21281</b>     |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 2   |                  |               |               |
| <b>CG 48 USS Yorktown, 21225</b>        |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 2   |                  |               |               |
| <b>CG 51 USS Thomas S. Gates, 21344</b> |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 55 USS Leyte Gulf, 21388</b>      |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 56 USS San Jacinto, 21389</b>     |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 58 USS Philippine Sea, 21429</b>  |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 60 USS Normandy, 21449</b>        |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT        | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>CG 61 USS Monterey, 21450</b>        |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | ICFN             | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 64 USS Gettysburg, 21624</b>      |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 66 USS Hue City, 21656</b>        |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 68 USS Anzio, 21658</b>           |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 69 USS Vicksburg, 21684</b>       |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 71 USS Cape St. George, 21828</b> |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 72 USS Vella Gulf, 21829</b>      |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>DD 963 USS Spruance, 20574</b>       |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT           | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|--|---------|-----|------------------|---------------|---------------|
|  | OFF     | ENL |                  |               |               |
| <b>DD 968 USS Arthur W. Radford, 20588</b> |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>DD 969 USS Peterson, 20589</b>          |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>DD 970 USS Caron, 20590</b>             |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>DD 977 USS Briscoe, 20603</b>           |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>DD 978 USS Stump, 20604</b>             |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>DD 982 USS Nicholson, 20614</b>         |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT                             | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|--|---------|-----|------------------|---------------|---------------|
|  | OFF     | ENL |                  |               |               |
| <b>DD 987 USS O'Bannon, 20834</b>                            |         |     |                  |               |               |
| ACDU   | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 3   |                  |               |               |
| <b>DD 988 USS Thorn, 20835</b>                               |         |     |                  |               |               |
| ACDU   | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 3   |                  |               |               |
| <b>DD 989 USS Deyo, 20836</b>                                |         |     |                  |               |               |
| ACDU   | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 3   |                  |               |               |
| <b>DD 997 USS Hayler, 21416</b>                              |         |     |                  |               |               |
| ACDU   | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 3   |                  |               |               |
| <b>DDG 100 USS (New Construction), 23152, FY05 Increment</b> |         |     |                  |               |               |
| ACDU   | 0       | 1   | EM1              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |
| <b>DDG 102 USS (New Construction), 23161, FY06 Increment</b> |         |     |                  |               |               |
| ACDU   | 0       | 1   | EM1              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |
| <b>DDG 51 USS Arleigh Burke, 21487</b>                       |         |     |                  |               |               |
| ACDU   | 0       | 1   | IC1              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT  | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|-----------------------------------|---------|-----|------------------|---------------|---------------|
|                                   | OFF     | ENL |                  |               |               |
| <b>DDG 52 USS Barry, 21660</b>    |         |     |                  |               |               |
| ACDU                              | 0       | 1   | IC1              | 4758          | 4728          |
|                                   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>            | 0       | 2   |                  |               |               |
| <b>DDG 55 USS Stout, 21685</b>    |         |     |                  |               |               |
| ACDU                              | 0       | 1   | IC1              | 4758          | 4728          |
|                                   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>            | 0       | 2   |                  |               |               |
| <b>DDG 57 USS Mitscher, 21687</b> |         |     |                  |               |               |
| ACDU                              | 0       | 1   | IC1              | 4758          | 4728          |
|                                   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>            | 0       | 2   |                  |               |               |
| <b>DDG 58 USS LaBoon, 21820</b>   |         |     |                  |               |               |
| ACDU                              | 0       | 1   | IC1              | 4758          | 4728          |
|                                   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>            | 0       | 2   |                  |               |               |
| <b>DDG 61 USS Ramage, 21823</b>   |         |     |                  |               |               |
| ACDU                              | 0       | 1   | IC1              | 4758          | 4728          |
|                                   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>            | 0       | 2   |                  |               |               |
| <b>DDG 64 USS Carney, 21923</b>   |         |     |                  |               |               |
| ACDU                              | 0       | 1   | IC1              | 4758          | 4728          |
|                                   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>            | 0       | 2   |                  |               |               |
| <b>DDG 66 USS Gonzalez, 21833</b> |         |     |                  |               |               |
| ACDU                              | 0       | 1   | IC1              | 4758          | 4728          |
|                                   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>            | 0       | 2   |                  |               |               |
| <b>DDG 67 USS Cole, 21941</b>     |         |     |                  |               |               |
| ACDU                              | 0       | 1   | IC1              | 4758          | 4728          |
|                                   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>            | 0       | 2   |                  |               |               |



## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT       | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|--|---------|-----|------------------|---------------|---------------|
|  | OFF     | ENL |                  |               |               |
| <b>DDG 69 USS The Sullivans, 21942</b> |         |     |                  |               |               |
| ACDU                                   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                 | 0       | 2   |                  |               |               |
| <b>DDG 71 USS Ross, 21945</b>          |         |     |                  |               |               |
| ACDU                                   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                 | 0       | 2   |                  |               |               |
| <b>DDG 72 USS Mahan, 21946</b>         |         |     |                  |               |               |
| ACDU                                   | 0       | 1   | IC1              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                 | 0       | 1   |                  |               |               |
| <b>DDG 74 USS MC Faul, 21948</b>       |         |     |                  |               |               |
| ACDU                                   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                 | 0       | 2   |                  |               |               |
| <b>DDG 75 USS Donald Cook, 21949</b>   |         |     |                  |               |               |
| ACDU                                   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                 | 0       | 2   |                  |               |               |
| <b>DDG 78 USS Porter, 21952</b>        |         |     |                  |               |               |
| ACDU                                   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                 | 0       | 2   |                  |               |               |
| <b>DDG 79 USS Oscar Austin, 21953</b>  |         |     |                  |               |               |
| ACDU                                   | 0       | 1   | EM1              | 4673          |               |
|  | 0       | 1   | IC1              | 4758          | 4746          |
|  | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                 | 0       | 3   |                  |               |               |
| <b>DDG 80 USS Roosevelt, 21954</b>     |         |     |                  |               |               |
| ACDU                                   | 0       | 1   | EM1              | 4673          |               |
|  | 0       | 1   | IC1              | 4758          | 4746          |
|  | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                 | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT                            | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>DDG 81 USS Winston S. Churchill, 21955</b>               |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 82 USS Lassen, 21956</b>                             |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 84 USS Bulkeley, 22992</b>                           |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>DDG 86 USS Shoup, 22994</b>                              |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 88 USS Preble, 22996</b>                             |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 90 USS Chafee, 23155, FY02 Increment</b>             |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 92 USS (New Construction), 23146, FY02 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT                            | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>DDG 94 USS (New Construction), 23148, FY03 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 96 USS (New Construction), 23154, FY04 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 98 USS (New Construction), 23150, FY04 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4746          |
|   | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>FFG 13 USS Samuel E. Morison, 20966</b>                  |         |     |                  |               |               |
| ACDU  | 0       | 2   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>FFG 14 USS Sides, 20967</b>                              |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4758          | 4727          |
|   | 0       | 1   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>FFG 28 USS Boone, 21053</b>                              |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4746          | 4703          |
|   | 0       | 1   | IC2              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>FFG 29 USS Stephen W. Groves, 21054</b>                  |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4746          | 4703          |
| TAR   | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 4   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT      | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---------------------------------------|---------|-----|------------------|---------------|---------------|
|                                       | OFF     | ENL |                  |               |               |
| <b>FFG 32 USS John L. Hall, 21057</b> |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>FFG 36 USS Underwood, 21103</b>    |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>FFG 39 USS Doyle, 21106</b>        |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>FFG 40 USS Halyburton, 21107</b>   |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>FFG 42 USS Klankring, 21109</b>    |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>FFG 45 USS Dewert, 21197</b>       |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC2              | 4746          | 4703          |
|                                       | 0       | 1   | IC2              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>FFG 47 USS Nicholas, 21199</b>     |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT           | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|--|---------|-----|------------------|---------------|---------------|
|  | OFF     | ENL |                  |               |               |
| <b>FFG 49 USS Robert G. Bradley, 21201</b> |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 2   | IC2              | 4758          | 4746          |
| TAR  | 0       | 1   | IC1              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 4   |                  |               |               |
| <b>FFG 50 USS Taylor, 21231</b>            |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>FFG 52 USS Carr, 21233</b>              |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 2   |                  |               |               |
| <b>FFG 53 USS Hawes, 21234</b>             |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>FFG 55 USS Elrod, 21236</b>             |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>FFG 56 USS Simpson, 21350</b>           |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 3   |                  |               |               |
| <b>FFG 58 USS Samuel B. Roberts, 21352</b> |         |     |                  |               |               |
| ACDU                                       | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 2   | IC2              | 4758          | 4746          |
| TAR  | 0       | 1   | IC1              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                     | 0       | 4   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT  | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>FFG 59 USS Kauffman, 21390</b>                                       |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 3   |                  |               |               |
| <b>FFG 8 USS McInerney, 21032</b>                                       |         |     |                  |               |               |
| ACDU  | 0       | 2   | IC2              | 4758          | 4746          |
| TAR   | 0       | 1   | IC1              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 3   |                  |               |               |
| <b>LCC 20 USS Mt. Whitney, 20001</b>                                    |         |     |                  |               |               |
| ACDU  | 0       | 2   | IC1              | 4758          |               |
|   | 0       | 2   | IC2              | 4758          | 9527          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>  | 0       | 5   |                  |               |               |
| <b>LPD 12 USS Shreveport, 07195</b>                                     |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4721          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>  | 0       | 2   |                  |               |               |
| <b>LPD 13 USS Nashville, 07196</b>                                      |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4721          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>  | 0       | 2   |                  |               |               |
| <b>LPD 14 USS Trenton, 07200</b>  |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4721          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>  | 0       | 2   |                  |               |               |
| <b>LPD 15 USS Ponce, 07201</b>  |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>  | 0       | 1   |                  |               |               |
| <b>LPD 17 USS San Antonio (New Construction), 07207, FY02 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4781          | 4758          |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>  | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT                            | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>LPD 19 USS (New Construction), 32421, FY04 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>LPD 21 USS (New Construction), 3013A, FY05 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>LPD 23 USS (New Construction), 3015A, FY06 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>LPD 25 USS (New Construction), 23181, FY07 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>LPD 4 USS Austin, 07175</b>                              |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4721          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>LSD 36 USS Anchorage, 07203</b>                          |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>LSD 37 USS Portland, 20012</b>                           |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC2              | 4716          | 4758          |
|   | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |
| <b>LSD 41 USS Whidbey Island, 21218</b>                     |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4758          | 4727          |
|   | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 2   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT      | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---------------------------------------|---------|-----|------------------|---------------|---------------|
|                                       | OFF     | ENL |                  |               |               |
| <b>LSD 44 USS Gunston Hall, 21422</b> |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>LSD 46 USS Tortuga, 21562</b>      |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>LSD 48 USS Ashland, 21531</b>      |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>LSD 50 USS Carter Hall, 21880</b>  |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>LSD 51 USS Oakhill, 21958</b>      |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          | 4727          |
|                                       | 0       | 1   | IC2              | 4775          | 4758          |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>AGF 11 USS Coronado, 07194</b>     |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          | 4716          |
|                                       | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>AOE 1 USS Sacramento, 05832</b>    |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 9526          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>AOE 10 USS Bridge, 21979</b>       |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 9526          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |



## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT     | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|--------------------------------------|---------|-----|------------------|---------------|---------------|
|                                      | OFF     | ENL |                  |               |               |
| <b>AOE 2 USS Camden, 05833</b>       |         |     |                  |               |               |
| ACDU                                 | 0       | 1   | IC2              | 4758          |               |
|                                      | 0       | 1   | IC3              | 4746          | 9526          |
| <b>ACTIVITY TOTAL:</b>               | 0       | 2   |                  |               |               |
| <b>AOE 7 USS Rainier, 21872</b>      |         |     |                  |               |               |
| ACDU                                 | 0       | 1   | IC2              | 4758          |               |
|                                      | 0       | 1   | IC3              | 4746          | 9526          |
| <b>ACTIVITY TOTAL:</b>               | 0       | 2   |                  |               |               |
| <b>ARS 50 USS Safeguard, 21245</b>   |         |     |                  |               |               |
| ACDU                                 | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>               | 0       | 1   |                  |               |               |
| <b>ARS 52 USS Salvor, 21468</b>      |         |     |                  |               |               |
| ACDU                                 | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>               | 0       | 1   |                  |               |               |
| <b>AS 40 USS Frank Cable, 20865</b>  |         |     |                  |               |               |
| ACDU                                 | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>               | 0       | 1   |                  |               |               |
| <b>CG 49 USS Vincennes, 21295</b>    |         |     |                  |               |               |
| ACDU                                 | 0       | 1   | EM2              | 4673          |               |
|                                      | 0       | 1   | IC2              | 4746          |               |
|                                      | 0       | 1   | IC2              | 4758          |               |
| <b>ACTIVITY TOTAL:</b>               | 0       | 3   |                  |               |               |
| <b>CG 50 USS Valley Forge, 21296</b> |         |     |                  |               |               |
| ACDU                                 | 0       | 1   | EM2              | 4673          |               |
|                                      | 0       | 1   | IC2              | 4746          |               |
|                                      | 0       | 2   | IC2              | 4758          |               |
| <b>ACTIVITY TOTAL:</b>               | 0       | 4   |                  |               |               |
| <b>CG 52 USS Bunker Hill, 21345</b>  |         |     |                  |               |               |
| ACDU                                 | 0       | 1   | EM2              | 4673          |               |
|                                      | 0       | 1   | IC2              | 4758          |               |
|                                      | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>               | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT         | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|--|---------|-----|------------------|---------------|---------------|
|  | OFF     | ENL |                  |               |               |
| <b>CG 53 USS Mobile Bay, 21346</b>       |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4746          |               |
|  | 0       | 1   | IC2              | 4758          |               |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 3   |                  |               |               |
| <b>CG 54 USS Antietam, 21387</b>         |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4746          |               |
|  | 0       | 1   | IC2              | 4758          |               |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 3   |                  |               |               |
| <b>CG 57 USS Lake Champlain, 21428</b>   |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4746          |               |
|  | 0       | 1   | IC2              | 4758          |               |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 3   |                  |               |               |
| <b>CG 59 USS Princeton, 21447</b>        |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 3   |                  |               |               |
| <b>CG 62 USS Chancellorsville, 21451</b> |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 3   |                  |               |               |
| <b>CG 63 USS Cowpens, 21623</b>          |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4746          |               |
|  | 0       | 1   | IC2              | 4758          |               |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 3   |                  |               |               |
| <b>CG 65 USS Chosin, 21625</b>           |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          |               |
|  | 0       | 1   | ICFN             | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT        | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>CG 67 USS Shiloh, 21657</b>          |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 70 USS Lake Erie, 21827</b>       |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4746          |               |
|   | 0       | 1   | IC2              | 4758          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>CG 70 USS Port Royal, 21830</b>      |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | ICFN             | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>DD 964 USS Paul F. Foster, 20575</b> |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>DD 965 USS Kinkaid, 20576</b>        |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>DD 966 USS Hewitt, 20586</b>         |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |
| <b>DD 967 USS Elliot, 20587</b>         |         |     |                  |               |               |
| ACDU                                    | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                  | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT      | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---------------------------------------|---------|-----|------------------|---------------|---------------|
|                                       | OFF     | ENL |                  |               |               |
| <b>DD 971 USS David R. Ray, 20591</b> |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>DD 972 USS Oldendorf, 20598</b>    |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>DD 973 USS John Young, 20599</b>   |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>DD 975 USS O'Brien, 20601</b>      |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>DD 985 USS Cushing, 20617</b>      |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |
| <b>DD 985 USS Fife, 20838</b>         |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 2   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 4   |                  |               |               |
| <b>DD 992 USS Fletcher, 20839</b>     |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | EM2              | 4673          |               |
|                                       | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 1416          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT                             | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|--|---------|-----|------------------|---------------|---------------|
|  | OFF     | ENL |                  |               |               |
| <b>DDG 101 USS (New Construction), 23151, FY05 Increment</b> |         |     |                  |               |               |
| ACDU   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |
| <b>DDG 103 USS (New Construction), 23165, FY06 Increment</b> |         |     |                  |               |               |
| ACDU   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |
| <b>DDG 53 USS John Paul Jones, 21313</b>                     |         |     |                  |               |               |
| ACDU   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |
| <b>DDG 54 USS Curtis Wilbur, 21640</b>                       |         |     |                  |               |               |
| ACDU   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |
| <b>DDG 54 USS Ford, 21235</b>                                |         |     |                  |               |               |
| ACDU   | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 2   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 3   |                  |               |               |
| <b>DDG 56 USS John S. McCain, 21686</b>                      |         |     |                  |               |               |
| ACDU   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |
| <b>DDG 59 USS Russell, 21821</b>                             |         |     |                  |               |               |
| ACDU   | 0       | 1   | IC1              | 4758          | 4728          |
|  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                       | 0       | 2   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT    | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|-------------------------------------|---------|-----|------------------|---------------|---------------|
|                                     | OFF     | ENL |                  |               |               |
| <b>DDG 62 USS Fitzgerald, 21824</b> |         |     |                  |               |               |
| ACDU                                | 0       | 1   | IC1              | 4758          | 4728          |
|                                     | 0       | 1   | IC2              | 4758          |               |
|                                     | 0       | 2   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>              | 0       | 4   |                  |               |               |
| <b>DDG 65 USS Benfold, 21940</b>    |         |     |                  |               |               |
| ACDU                                | 0       | 1   | IC1              | 4758          | 4728          |
|                                     | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>              | 0       | 2   |                  |               |               |
| <b>DDG 69 USS Milius, 21943</b>     |         |     |                  |               |               |
| ACDU                                | 0       | 1   | IC1              | 4758          | 4728          |
|                                     | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>              | 0       | 2   |                  |               |               |
| <b>DDG 70 USS Hopper, 21944</b>     |         |     |                  |               |               |
| ACDU                                | 0       | 1   | IC1              | 4758          | 4728          |
|                                     | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>              | 0       | 2   |                  |               |               |
| <b>DDG 73 USS Decatur, 21947</b>    |         |     |                  |               |               |
| ACDU                                | 0       | 1   | IC2              | 4758          | 4728          |
|                                     | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>              | 0       | 2   |                  |               |               |
| <b>DDG 76 USS Higgins, 21950</b>    |         |     |                  |               |               |
| ACDU                                | 0       | 1   | IC1              | 4758          | 4728          |
|                                     | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>              | 0       | 2   |                  |               |               |
| <b>DDG 77 USS O'Kane, 21951</b>     |         |     |                  |               |               |
| ACDU                                | 0       | 1   | IC1              | 4758          | 4728          |
|                                     | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>              | 0       | 2   |                  |               |               |
| <b>DDG 83 USS Howard, 22999</b>     |         |     |                  |               |               |
| ACDU                                | 0       | 1   | EM1              | 4673          | 4728          |
|                                     | 0       | 1   | IC1              | 4758          |               |
|                                     | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>              | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT                            | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>DDG 85 USS McCampbell, 22993</b>                         |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 87 USS Mason, 22995</b>                              |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 89 USS Mustin, 22997, FY02 Increment</b>             |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 91 USS Pinckney, 23145, FY02 Increment</b>           |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4728          |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 4   |                  |               |               |
| <b>DDG 93 USS (New Construction), 23147, FY03 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 95 USS (New Construction), 23153, FY03 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>DDG 97 USS (New Construction), 23149, FY04 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT                            | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>DDG 99 USS (New Construction), 23150, FY05 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM1              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4728          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>FFG 12 USS George Philips, 20965</b>                     |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC1              | 4758          | 4727          |
|   | 0       | 1   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>FFG 33 USS Jarrett, 21058</b>                            |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4746          | 4703          |
|   | 0       | 1   | IC2              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>FFG 37 USS Crommelin, 21104</b>                          |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4746          | 4703          |
|   | 0       | 1   | IC2              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>FFG 38 USS Curts, 21105</b>                              |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4746          | 4703          |
|   | 0       | 1   | IC2              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>FFG 41 USS McClusky, 21108</b>                           |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4746          | 4703          |
|   | 0       | 1   | IC2              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |
| <b>FFG 43 USS Thach, 21110</b>                              |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
|   | 0       | 1   | IC2              | 4746          | 4703          |
|   | 0       | 1   | IC2              | 4758          | 4727          |
| <b>ACTIVITY TOTAL:</b>                                      | 0       | 3   |                  |               |               |



## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT         | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|--|---------|-----|------------------|---------------|---------------|
|  | OFF     | ENL |                  |               |               |
| <b>FFG 45 USS De Wert, 21197</b>         |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 2   |                  |               |               |
| <b>FFG 46 USS Rentz, 21198</b>           |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4746          | 4703          |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 2   |                  |               |               |
| <b>FFG 48 USS Vandegrift, 21200</b>      |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 2   |                  |               |               |
| <b>FFG 51 USS Gary, 21232</b>            |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 2   |                  |               |               |
| <b>FFG 57 USS Ruben James, 21351</b>     |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC3              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 2   |                  |               |               |
| <b>FFG 60 USS Rodney M. Davis, 21391</b> |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 2   |                  |               |               |
| <b>FFG 61 USS Ingraham, 21430</b>        |         |     |                  |               |               |
| ACDU                                     | 0       | 1   | EM2              | 4673          |               |
|  | 0       | 1   | IC2              | 4758          | 4746          |
| <b>ACTIVITY TOTAL:</b>                   | 0       | 2   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT  | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>FFG 9 USS Wadsworth, 21033</b>                                       |         |     |                  |               |               |
| ACDU  | 0       | 1   | EM2              | 4673          |               |
| TAR   | 0       | 1   | IC1              | 4758          |               |
|   | 0       | 1   | IC2              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>  | 0       | 3   |                  |               |               |
| <b>LCC 19 USS Blue Ridge, 05840</b>                                     |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4758          | 4721          |
|   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>  | 0       | 2   |                  |               |               |
| <b>LPD 10 USS Juneau, 07184</b>   |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 1   |                  |               |               |
| <b>LPD 18 USS New Orleans (New Construction), 23168, FY03 Increment</b> |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 1   |                  |               |               |
| <b>LPD 20 USS (New Construction), 3012A, FY04 Increment</b>             |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 1   |                  |               |               |
| <b>LPD 22 USS (New Construction), 3014A, FY05 Increment</b>             |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 1   |                  |               |               |
| <b>LPD 24 USS (New Construction), 23180, FY06 Increment</b>             |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 1   |                  |               |               |
| <b>LPD 26 USS (New Construction), 23182, FY07 Increment</b>             |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 1   |                  |               |               |
| <b>LPD 5 USS Ogden, 07176</b>   |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>  | 0       | 1   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT      | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---------------------------------------|---------|-----|------------------|---------------|---------------|
|                                       | OFF     | ENL |                  |               |               |
| <b>LPD 6 USS Duluth, 07177</b>        |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 1   |                  |               |               |
| <b>LPD 7 USS Cleveland, 07181</b>     |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 1   |                  |               |               |
| <b>LPD 8 USS Dubuque, 07182</b>       |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 1   |                  |               |               |
| <b>LPD 9 USS Denver, 07183</b>        |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC3              | 4746          | 4758          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 1   |                  |               |               |
| <b>LSD 39 USS Mount Vernon, 20014</b> |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC2              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>LSD 42 USS Germantown, 21639</b>   |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>LSD 43 USS Fort McHenry, 21400</b> |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>LSD 45 USS Comstock, 21452</b>     |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |
| <b>LSD 47 USS Rushmore, 21530</b>     |         |     |                  |               |               |
| ACDU                                  | 0       | 1   | IC1              | 4758          |               |
|                                       | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                | 0       | 2   |                  |               |               |

## II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| ACTIVITY, UIC, PHASING INCREMENT                  | BILLETS |     | DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS |
|---|---------|-----|------------------|---------------|---------------|
|   | OFF     | ENL |                  |               |               |
| <b>LSD 49 USS Harpers Ferry, 21852</b>            |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                            | 0       | 2   |                  |               |               |
| <b>LSD 52 USS Pearl Harbor, 21959</b>             |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC1              | 4758          |               |
|   | 0       | 1   | IC2              | 4758          |               |
|   | 0       | 1   | IC3              | 4746          | 9527          |
| <b>ACTIVITY TOTAL:</b>                            | 0       | 3   |                  |               |               |
| <b>LST 1184 USS Frederick, 20023</b>              |         |     |                  |               |               |
| TAR   | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                            | 0       | 1   |                  |               |               |
| <b>MCS 12 USS Incheon, 20009</b>                  |         |     |                  |               |               |
| ACDU  | 0       | 1   | IC3              | 4746          |               |
| <b>ACTIVITY TOTAL:</b>                            | 0       | 1   |                  |               |               |
| FLEET SUPPORT ACTIVITIES - USN                    |         |     |                  |               |               |
| <b>MTU 3040 NAMTRAU Norfolk, 66046</b>            |         |     |                  |               |               |
| ACDU  | 0       | 2   | IC1              | 4746          | 9502          |
| <b>ACTIVITY TOTAL:</b>                            | 0       | 2   |                  |               |               |
| <b>Service School Command, Great Lakes, 30626</b> |         |     |                  |               |               |
| ACDU  | 0       | 3   | IC1              | 4746          | 9502          |
|   | 0       | 3   | IC2              | 4746          | 9502          |
| <b>ACTIVITY TOTAL:</b>                            | 0       | 6   |                  |               |               |
| <b>Fleet Training Center, San Diego, 61690</b>    |         |     |                  |               |               |
| ACDU  | 0       | 2   | EM1              | 4673          | 9502          |
|   | 0       | 2   | IC1              |               | 9502          |
| <b>ACTIVITY TOTAL:</b>                            | 0       | 4   |                  |               |               |
| <b>MTU 3041 NAMTRAU North Island, 66065</b>       |         |     |                  |               |               |
| ACDU  | 0       | 1   | ICC              | 4758          | 9502          |
|   | 0       | 1   | IC1              | 4758          | 9502          |
| <b>ACTIVITY TOTAL:</b>                            | 0       | 2   |                  |               |               |

## II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| DESIG/<br>RATING                    | PNEC/SNEC<br>PMOS/SMOS |      | PFYs |     | CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |  |
|-------------------------------------|------------------------|------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|--|
|                                     |                        |      | OFF  | ENL | OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |      |  |
| USN OPERATIONAL ACTIVITIES - ACDU   |                        |      |      |     |       |     |      |     |      |     |      |     |      |  |
| EM1                                 | 4673                   |      | 14   |     | 3     |     | 3    |     | 2    |     | 1    |     | 0    |  |
| EM2                                 | 4673                   |      | 79   |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4721                   | 4728 | 4    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4758                   |      | 11   |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4758                   | 4716 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4758                   | 4721 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4758                   | 4727 | 13   |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4758                   | 4728 | 28   |     | 2     |     | 1    |     | 2    |     | 1    |     | 0    |  |
| IC1                                 | 4758                   | 4746 | 9    |     | 1     |     | 2    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4781                   | 4758 | 2    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4716                   | 4758 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4746                   |      | 7    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4746                   | 4703 | 18   |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4758                   |      | 56   |     | 0     |     | 1    |     | 1    |     | 1    |     | 1    |  |
| IC2                                 | 4758                   | 4727 | 9    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4758                   | 4728 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4758                   | 4746 | 40   |     | 0     |     | 0    |     | 0    |     | 1    |     | 1    |  |
| IC2                                 | 4758                   | 9527 | 2    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4775                   | 4758 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4777                   | 4758 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC3                                 | 4746                   |      | 60   |     | 2     |     | 2    |     | 3    |     | 2    |     | 1    |  |
| IC3                                 | 4746                   | 1416 | 22   |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC3                                 | 4746                   | 4758 | 6    |     | 1     |     | 1    |     | 1    |     | 1    |     | 1    |  |
| IC3                                 | 4746                   | 9526 | 6    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC3                                 | 4746                   | 9527 | 15   |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC3                                 | 4758                   | 4746 | 10   |     | 1     |     | 2    |     | 0    |     | 0    |     | 0    |  |
| ICFN                                | 4746                   |      | 3    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| USN OPERATIONAL ACTIVITIES - TAR    |                        |      |      |     |       |     |      |     |      |     |      |     |      |  |
| EM2                                 | 4673                   |      | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4758                   |      | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4758                   | 4727 | 3    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4746                   |      | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4758                   | 4727 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC3                                 | 4746                   |      | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| USN FLEET SUPPORT ACTIVITIES - ACDU |                        |      |      |     |       |     |      |     |      |     |      |     |      |  |
| EM1                                 | 4673                   | 9502 | 2    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| ICC                                 | 4758                   | 9502 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4746                   | 9502 | 5    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC1                                 | 4758                   | 9502 | 1    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |
| IC2                                 | 4746                   | 9502 | 3    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |  |

## II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| DESIG/<br>RATING                    | PNEC/SNEC<br>PMOS/SMOS | PFYs |     | CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |
|-------------------------------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
|                                     |                        | OFF  | ENL | OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |
| <b>SUMMARY TOTALS:</b>              |                        |      |     |       |     |      |     |      |     |      |     |      |     |
| USN OPERATIONAL ACTIVITIES - ACDU   |                        |      |     |       |     |      |     |      |     |      |     |      |     |
|                                     |                        | 420  |     | 10    |     | 12   |     | 10   |     | 7    |     | 3    |     |
| USN OPERATIONAL ACTIVITIES - TAR    |                        |      |     |       |     |      |     |      |     |      |     |      |     |
|                                     |                        | 8    |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |     |
| USN FLEET SUPPORT ACTIVITIES - ACDU |                        |      |     |       |     |      |     |      |     |      |     |      |     |
|                                     |                        | 14   |     | 0     |     | 0    |     | 0    |     | 0    |     | 0    |     |
| <b>GRAND TOTALS:</b>                |                        |      |     |       |     |      |     |      |     |      |     |      |     |
| USN - ACDU                          |                        |      | 436 | 10    |     | 12   |     | 10   |     | 7    |     | 3    |     |
| USN - TAR                           |                        |      | 8   | 0     |     | 0    |     | 0    |     | 0    |     | 0    |     |

### II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

| DESIG/<br>RATING | PNEC/SNEC<br>PMOS/SMOS | PFYs |     | CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |
|------------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
|                  |                        | OFF  | ENL | OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |

**TRAINING ACTIVITY, LOCATION, UIC:** Fleet Training Center, Norfolk, 61797

#### INSTRUCTOR BILLETS

|               |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| USN           |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| EMC           | 4673 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| EM1           | 4673 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| <b>TOTAL:</b> |      |      | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |

**TRAINING ACTIVITY, LOCATION, UIC:** Fleet Training Center, San Diego, 61690

#### INSTRUCTOR BILLETS

|               |      |  |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|------|--|---|---|---|---|---|---|---|---|---|---|---|---|
| USN           |      |  |   |   |   |   |   |   |   |   |   |   |   |   |
| EM1           | 4673 |  | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| <b>TOTAL:</b> |      |  | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |

**TRAINING ACTIVITY, LOCATION, UIC:** MTU 3040 NAMTRAU Norfolk, 66046

#### INSTRUCTOR BILLETS

|               |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| USN           |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| IC1           | 4758 | 9502 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| <b>TOTAL:</b> |      |      | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |

**TRAINING ACTIVITY, LOCATION, UIC:** MTU 3041 NAMTRAU North Island, 66065

#### INSTRUCTOR BILLETS

|               |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| USN           |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| IC1           | 4758 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| ICC           | 4758 | 9502 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| <b>TOTAL:</b> |      |      | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |

### II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

| DESIG/<br>RATING | PNEC/SNEC<br>PMOS/SMOS | PFYs |     | CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |
|------------------|------------------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
|                  |                        | OFF  | ENL | OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |

TRAINING ACTIVITY, LOCATION, UIC: Service School Command, Great Lakes, 30626

#### INSTRUCTOR BILLETS

|               |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|
| USN           |      |      |   |   |   |   |   |   |   |   |   |   |   |   |
| IC1           | 4746 | 9502 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| IC2           | 4746 | 9502 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| <b>TOTAL:</b> |      |      | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 |



#### II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

| ACTIVITY,<br>LOCATION, UIC                 | USN/<br>USMC | PFYs |     | CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |
|--|--------------|------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|
|  |              | OFF  | ENL | OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |
| Fleet Training Center, Norfolk, 61797      | USN          | 0.0  | 1.6 | 0.0   | 1.5 | 0.0  | 1.7 | 0.0  | 1.5 | 0.0  | 1.7 | 0.0  | 1.5 |
| MTU 3040 NAMTRAU Norfolk, 66046            | USN          | 0.0  | 2.4 | 0.0   | 2.3 | 0.0  | 2.4 | 0.0  | 2.4 | 0.0  | 2.4 | 0.0  | 2.4 |
| Service School Command, Great Lakes, 30626 | USN          | 0.0  | 2.4 | 0.0   | 2.4 | 0.0  | 2.5 | 0.0  | 2.5 | 0.0  | 2.5 | 0.0  | 2.4 |
| Fleet Training Center, San Diego, 61690    | USN          | 0.0  | 1.4 | 0.0   | 1.5 | 0.0  | 1.5 | 0.0  | 1.5 | 0.0  | 1.4 | 0.0  | 1.4 |
| MTU 3041 NAMTRAU North Island, 66065       | USN          | 0.0  | 1.5 | 0.0   | 1.5 | 0.0  | 1.4 | 0.0  | 1.6 | 0.0  | 1.5 | 0.0  | 1.5 |
| <b>SUMMARY TOTALS:</b>                     | USN          | 0.0  | 9.3 | 0.0   | 9.2 | 0.0  | 9.5 | 0.0  | 9.5 | 0.0  | 9.5 | 00   | 9.2 |
| <b>GRAND TOTALS:</b>                       |              | 0.0  | 9.3 | 0.0   | 9.2 | 0.0  | 9.5 | 0.0  | 9.5 | 0.0  | 9.5 | 00   | 9.2 |

## II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/<br>RATING | PNEC/<br>PMOS | SNEC/<br>SMOS | BILLET<br>BASE | CFY03<br>+/- CUM | FY04<br>+/- CUM | FY05<br>+/- CUM | FY06<br>+/- CUM | FY07<br>+/- CUM |
|------------------|---------------|---------------|----------------|------------------|-----------------|-----------------|-----------------|-----------------|
|------------------|---------------|---------------|----------------|------------------|-----------------|-----------------|-----------------|-----------------|

a. OFFICER - USN Not Applicable

### b. ENLISTED - USN

#### Operational Billets ACDU and TAR

|      |      |      |    |   |    |   |    |   |    |   |    |   |    |
|------|------|------|----|---|----|---|----|---|----|---|----|---|----|
| EM1  | 4673 |      | 14 | 3 | 17 | 3 | 20 | 2 | 22 | 1 | 23 | 0 | 23 |
| EM2  | 4673 |      | 80 | 0 | 80 | 0 | 80 | 0 | 80 | 0 | 80 | 0 | 80 |
| IC1  | 4721 | 4728 | 4  | 0 | 4  | 0 | 4  | 0 | 4  | 0 | 4  | 0 | 4  |
| IC1  | 4758 |      | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| IC1  | 4758 | 4716 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  |
| IC1  | 4758 | 4721 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  |
| IC1  | 4758 | 4727 | 16 | 0 | 16 | 0 | 16 | 0 | 16 | 0 | 16 | 0 | 16 |
| IC1  | 4758 | 4728 | 28 | 2 | 30 | 1 | 31 | 2 | 33 | 1 | 34 | 0 | 34 |
| IC1  | 4758 | 4746 | 9  | 1 | 10 | 2 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |
| IC1  | 4781 | 4758 | 2  | 0 | 2  | 0 | 2  | 0 | 2  | 0 | 2  | 0 | 2  |
| IC2  | 4716 | 4758 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  |
| IC2  | 4746 |      | 8  | 0 | 8  | 0 | 8  | 0 | 8  | 0 | 8  | 0 | 8  |
| IC2  | 4746 | 4703 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 |
| IC2  | 4758 |      | 56 | 0 | 56 | 1 | 57 | 1 | 58 | 1 | 59 | 1 | 60 |
| IC2  | 4758 | 4727 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 |
| IC2  | 4758 | 4728 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  |
| IC2  | 4758 | 4746 | 40 | 0 | 40 | 0 | 40 | 1 | 41 | 1 | 42 | 0 | 42 |
| IC2  | 4758 | 9527 | 2  | 0 | 2  | 0 | 2  | 0 | 2  | 0 | 2  | 0 | 2  |
| IC2  | 4775 | 4758 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  |
| IC2  | 4777 | 4758 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  | 0 | 1  |
| IC3  | 4746 |      | 61 | 2 | 63 | 2 | 65 | 3 | 68 | 2 | 70 | 1 | 71 |
| IC3  | 4746 | 1416 | 22 | 0 | 22 | 0 | 22 | 0 | 22 | 0 | 22 | 0 | 22 |
| IC3  | 4746 | 4758 | 6  | 1 | 7  | 1 | 8  | 1 | 9  | 1 | 10 | 1 | 11 |
| IC3  | 4746 | 9526 | 6  | 0 | 6  | 0 | 6  | 0 | 6  | 0 | 6  | 0 | 6  |
| IC3  | 4746 | 9527 | 15 | 0 | 15 | 0 | 15 | 0 | 15 | 0 | 15 | 0 | 15 |
| IC3  | 4758 | 4746 | 10 | 1 | 11 | 2 | 13 | 0 | 13 | 0 | 13 | 0 | 13 |
| ICFN | 4746 |      | 3  | 0 | 3  | 0 | 3  | 0 | 3  | 0 | 3  | 0 | 3  |

#### Fleet Support Billets ACDU and TAR

|     |      |      |   |   |   |   |   |   |   |   |   |   |   |
|-----|------|------|---|---|---|---|---|---|---|---|---|---|---|
| EM1 | 4673 | 9502 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| ICC | 4758 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| IC1 |      | 9502 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 |
| IC1 | 4746 | 9502 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 5 |
| IC1 | 4758 | 9502 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| IC2 | 4746 | 9502 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |

## II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

| DESIG/<br>RATING           | PNEC/<br>PMOS | SNEC/<br>SMOS | BILLET<br>BASE | CFY03<br>+/- | CUM | FY04<br>+/- | CUM | FY05<br>+/- | CUM | FY06<br>+/- | CUM | FY07<br>+/- | CUM |
|----------------------------|---------------|---------------|----------------|--------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|
| Staff Billets ACDU and TAR |               |               |                |              |     |             |     |             |     |             |     |             |     |
| EMC                        | 4673          | 9502          | 1              | 0            | 1   | 0           | 1   | 0           | 1   | 0           | 1   | 0           | 1   |
| EM1                        | 4673          |               | 2              | 0            | 2   | 0           | 2   | 0           | 2   | 0           | 2   | 0           | 2   |
| EM1                        | 4673          | 9502          | 1              | 0            | 1   | 0           | 1   | 0           | 1   | 0           | 1   | 0           | 1   |
| ICC                        | 4758          | 9502          | 1              | 0            | 1   | 0           | 1   | 0           | 1   | 0           | 1   | 0           | 1   |
| IC1                        | 4746          | 9502          | 3              | 0            | 3   | 0           | 3   | 0           | 3   | 0           | 3   | 0           | 3   |
| IC1                        | 4758          | 9502          | 3              | 0            | 3   | 0           | 3   | 0           | 3   | 0           | 3   | 0           | 3   |
| IC2                        | 4746          | 9502          | 3              | 0            | 3   | 0           | 3   | 0           | 3   | 0           | 3   | 0           | 3   |

### Chargeable Student Billets ACDU and TAR

|    |   |    |   |    |   |    |   |    |   |    |   |    |
|----|---|----|---|----|---|----|---|----|---|----|---|----|
| 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 |
|----|---|----|---|----|---|----|---|----|---|----|---|----|

### TOTAL USN ENLISTED BILLETS:

|                    |     |    |     |    |     |    |     |   |     |   |     |
|--------------------|-----|----|-----|----|-----|----|-----|---|-----|---|-----|
| Operational        | 428 | 10 | 438 | 12 | 450 | 10 | 460 | 7 | 467 | 3 | 470 |
| Fleet Support      | 14  | 0  | 14  | 0  | 14  | 0  | 14  | 0 | 14  | 0 | 14  |
| Staff              | 16  | 0  | 16  | 0  | 16  | 0  | 16  | 0 | 16  | 0 | 16  |
| Chargeable Student | 10  | 0  | 10  | 0  | 10  | 0  | 10  | 0 | 10  | 0 | 10  |

c. OFFICER - USMC Not Applicable

d. ENLISTED - USMC Not Applicable

## II.B. ANNUAL TRAINING INPUT REQUIREMENTS

**CIN, COURSE TITLE:** A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance

**COURSE LENGTH:** 2.0 Weeks

**NAVY TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.00

| TRAINING<br>ACTIVITY                | SOURCE | ACDU/TAR<br>SELRES | CFY03<br>OFF ENL | FY04<br>OFF ENL | FY05<br>OFF ENL | FY06<br>OFF ENL | FY07<br>OFF ENL |
|-------------------------------------|--------|--------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| Service School Command, Great Lakes |        |                    |                  |                 |                 |                 |                 |
|                                     | USN    | ACDU               |                  | 77              | 79              | 79              | 78              |
|                                     |        | TAR                |                  | 1               | 1               | 1               | 1               |
|                                     |        | TOTAL:             |                  | 78              | 80              | 80              | 79              |

**CIN, COURSE TITLE:** C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance

**COURSE LENGTH:** 3.4 Weeks

**NAVY TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.07

| TRAINING<br>ACTIVITY          | SOURCE | ACDU/TAR<br>SELRES | CFY03<br>OFF ENL | FY04<br>OFF ENL | FY05<br>OFF ENL | FY06<br>OFF ENL | FY07<br>OFF ENL |
|-------------------------------|--------|--------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| MTU 3040 NAMTRAU Norfolk      |        |                    |                  |                 |                 |                 |                 |
|                               | USN    | ACDU               |                  | 37              | 39              | 38              | 38              |
|                               |        | TAR                |                  | 1               | 1               | 1               | 1               |
| MTU 3041 NAMTRAU North Island |        |                    |                  |                 |                 |                 |                 |
|                               | USN    | ACDU               |                  | 25              | 24              | 25              | 25              |
|                               |        | TAR                |                  | 0               | 0               | 0               | 0               |
|                               |        | TOTAL:             |                  | 63              | 64              | 64              | 64              |

**CIN, COURSE TITLE:** K-652-2204, LAMPS MK-III RAST Electrical Technician

**COURSE LENGTH:** 5.0 Weeks

**NAVY TOUR LENGTH:** 36 Months

**ATTRITION FACTOR:** Navy: 10%

**BACKOUT FACTOR:** 0.10

| TRAINING<br>ACTIVITY             | SOURCE | ACDU/TAR<br>SELRES | CFY03<br>OFF ENL | FY04<br>OFF ENL | FY05<br>OFF ENL | FY06<br>OFF ENL | FY07<br>OFF ENL |
|----------------------------------|--------|--------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| Fleet Training Center, Norfolk   |        |                    |                  |                 |                 |                 |                 |
|                                  | USN    | ACDU               |                  | 18              | 19              | 19              | 18              |
|                                  |        | TAR                |                  | 0               | 0               | 1               | 0               |
| Fleet Training Center, San Diego |        |                    |                  |                 |                 |                 |                 |
|                                  | USN    | ACDU               |                  | 17              | 17              | 16              | 16              |
|                                  |        | TOTAL:             |                  | 35              | 37              | 36              | 34              |

### **PART III - TRAINING REQUIREMENTS**

The following elements are not affected by the Air Capable Ship VLA Systems and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

### III.A.2. FOLLOW-ON TRAINING

#### III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance  
**TRAINING ACTIVITY:** Service School Command  
**LOCATION, UIC:** Great Lakes, 30626

**SOURCE:** USN **STUDENT CATEGORY:** ACDU - TAR

| CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |            |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |            |
|       | 78  |      | 80  |      | 80  |      | 80  |      | 79  | ATIR       |
|       | 70  |      | 72  |      | 72  |      | 72  |      | 71  | Output     |
|       | 2.4 |      | 2.5 |      | 2.5 |      | 2.5 |      | 2.4 | AOB        |
|       | 2.4 |      | 2.5 |      | 2.5 |      | 2.5 |      | 2.4 | Chargeable |

**CIN, COURSE TITLE:** C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance  
**TRAINING ACTIVITY:** MTU 3040 NAMTRAU  
**LOCATION, UIC:** NAS Norfolk, 66046

**SOURCE:** USN **STUDENT CATEGORY:** ACDU - TAR

| CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |            |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |            |
|       | 38  |      | 40  |      | 39  |      | 39  |      | 39  | ATIR       |
|       | 34  |      | 36  |      | 35  |      | 35  |      | 35  | Output     |
|       | 2.3 |      | 2.4 |      | 2.4 |      | 2.4 |      | 2.4 | AOB        |
|       | 2.3 |      | 2.4 |      | 2.4 |      | 2.4 |      | 2.4 | Chargeable |

**TRAINING ACTIVITY:** MTU 3041 NAMTRAU  
**LOCATION, UIC:** NAS North Island, 66065

**SOURCE:** USN **STUDENT CATEGORY:** ACDU - TAR

| CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |            |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |            |
|       | 25  |      | 24  |      | 26  |      | 25  |      | 25  | ATIR       |
|       | 23  |      | 22  |      | 23  |      | 23  |      | 23  | Output     |
|       | 1.5 |      | 1.4 |      | 1.6 |      | 1.5 |      | 1.5 | AOB        |
|       | 1.5 |      | 1.4 |      | 1.6 |      | 1.5 |      | 1.5 | Chargeable |

### III.A.2.a. EXISTING COURSES

**CIN, COURSE TITLE:** K-652-2204, LAMPS MK-III RAST Electrical Technician

**TRAINING ACTIVITY:** Fleet Training Center

**LOCATION, UIC:** NS Norfolk, 61797

**SOURCE:** USN

**STUDENT CATEGORY:** ACDU - TAR

| CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |            |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |            |
|       | 18  |      | 20  |      | 18  |      | 20  |      | 18  | ATIR       |
|       | 16  |      | 18  |      | 16  |      | 18  |      | 116 | Output     |
|       | 1.5 |      | 1.7 |      | 1.5 |      | 1.7 |      | 1.5 | AOB        |
|       | 1.5 |      | 1.7 |      | 1.5 |      | 1.7 |      | 1.5 | Chargeable |

**TRAINING ACTIVITY:** Fleet Training Center

**LOCATION, UIC:** San Diego, 61690

**SOURCE:** USN

**STUDENT CATEGORY:** ACDU - TAR

| CFY03 |     | FY04 |     | FY05 |     | FY06 |     | FY07 |     |            |
|-------|-----|------|-----|------|-----|------|-----|------|-----|------------|
| OFF   | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL | OFF  | ENL |            |
|       | 17  |      | 17  |      | 17  |      | 16  |      | 16  | ATIR       |
|       | 15  |      | 15  |      | 15  |      | 14  |      | 14  | Output     |
|       | 1.5 |      | 1.5 |      | 1.5 |      | 1.4 |      | 1.4 | AOB        |
|       | 1.5 |      | 1.5 |      | 1.5 |      | 1.4 |      | 1.4 | Chargeable |

## **PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS**

The following elements are not affected by the Air Capable Ship VLA Systems and, therefore, are not included in Part IV of this NTSP:

### **IV.A. Training Hardware**

#### **IV.A.2. Training Devices**

### **IV.B.1. Training Services**

### **IV.C. Facility Requirements**

#### **IV.C.1. Facility Requirements Summary (Space/Support) by Activity**

#### **IV.C.2. Facility Requirements Detailed by Activity and Course**

#### **IV.C.3. Facility Project Summary by Program**



#### IV.A. TRAINING HARDWARE

##### IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

**CIN, COURSE TITLE:** A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance

**TRAINING ACTIVITY:** Service School Command

**LOCATION, UIC:** Great Lakes, 30626

| ITEM NO.    | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS  |
|-------------|---|----------|-----------|---------|---------|
| <b>TTE</b>  |   |          |           |         |         |
| 001         | Black and White Monitor                   | 28       | Mar 96    | GFE     | Onboard |
| 002         | Color Camera                              | 16       | Mar 96    | GFE     | Onboard |
| 003         | Color Monitor                             | 21       | Mar 96    | GFE     | Onboard |
| 004         | Camcorder                                 | 10       | Mar 96    | GFE     | Onboard |
| 005         | Color Receiver                            | 20       | Mar 96    | GFE     | Onboard |
| 006         | Video Recorder                            | 10       | Mar 96    | GFE     | Onboard |
| 007         | Ships Information Console                 | 3        | Mar 96    | GFE     | Onboard |
| 008         | Bulk Tape Eraser                          | 2        | Mar 96    | GFE     | Onboard |
| <b>GPTE</b> |   |          |           |         |         |
| 050         | Digital MultiMate                         | 17       | Mar 96    | GFE     | Onboard |
| 051         | Oscilloscope                              | 17       | Mar 96    | GFE     | Onboard |
| 052         | Video Analyzer                            | 17       | Mar 96    | GFE     | Onboard |
| 053         | Isolation Transformer                     | 17       | Mar 96    | GFE     | Onboard |
| 054         | High Voltage Probe                        | 17       | Mar 96    | GFE     | Onboard |
| 055         | Waveform Monitor                          | 17       | Mar 96    | GFE     | Onboard |
| 056         | Vectorscope                               | 8        | Mar 96    | GFE     | Onboard |
| 057         | Field Strength Meter                      | 10       | Mar 96    | GFE     | Onboard |
| 058         | Light meter                               | 3        | Mar 96    | GFE     | Onboard |
| <b>ST</b>   |   |          |           |         |         |
| 100         | Tool Kit Television Repair                | 3        | Mar 96    | GFE     | Onboard |
| 101         | Lighting Kit                              | 3        | Mar 96    | GFE     | Onboard |
| 102         | Light Box PTB-500                         | 8        | Mar 96    | GFE     | Onboard |

**IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE****CIN, COURSE TITLE:** K-652-2204, LAMPS MK-III RAST Electrical Technician**TRAINING ACTIVITY:** Fleet Training Center**LOCATION, UIC:** NS Norfolk, 61797

| <b>ITEM<br/>NO.</b> | <b>EQUIPMENT /<br/>TYPE OR RANGE OF REPAIR PARTS</b> | <b>QTY<br/>REQD</b> | <b>DATE<br/>REQD</b> | <b>GFE<br/>CFE</b> | <b>STATUS</b> |
|---------------------|--|---------------------|----------------------|--------------------|---------------|
| <b>TTE</b>          |  |                     |                      |                    |               |
| 009                 | RAST System  | 1                   | May 00               | GFE                | Onboard       |
| 010                 | Horizon Reference Set                                | 1                   | May 00               | GFE                | Onboard       |
| <b>GPTE</b>         |  |                     |                      |                    |               |
| 051                 | Oscilloscope   | 1                   | May 00               | GFE                | Onboard       |
| 059                 | Stop Watch   | 1                   | May 00               | GFE                | Onboard       |
| 060                 | Headset, Sound Powered                               | 2                   | May 00               | GFE                | Onboard       |
| 061                 | Ultraviolet Light, Magnaflux                         | 1                   | May 00               | GFE                | Onboard       |
| 062                 | RPM Indicator  | 1                   | May 00               | GFE                | Onboard       |
| <b>ST</b>           |  |                     |                      |                    |               |
| 103                 | Plate, Restraint                                     | 1                   | May 00               | GFE                | Onboard       |
| 104                 | Electrical Tool Box                                  | 1                   | May 00               | GFE                | Onboard       |
| 105                 | Mechanical Tool Box                                  | 1                   | May 00               | GFE                | Onboard       |
| 106                 | Calibration Kit                                      | 1                   | May 00               | GFE                | Onboard       |

**IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE****CIN, COURSE TITLE:** K-652-2204, LAMPS MK-III RAST Electrical Technician**TRAINING ACTIVITY:** Fleet Training Center**LOCATION, UIC:** San Diego, 61690

| <b>ITEM<br/>NO.</b> | <b>EQUIPMENT /<br/>TYPE OR RANGE OF REPAIR PARTS</b> | <b>QTY<br/>REQD</b> | <b>DATE<br/>REQD</b> | <b>GFE<br/>CFE</b> | <b>STATUS</b> |
|---------------------|--|---------------------|----------------------|--------------------|---------------|
| <b>TTE</b>          |  |                     |                      |                    |               |
| 009                 | RAST System  | 1                   | May 00               | GFE                | Onboard       |
| 010                 | Horizon Reference Set                                | 1                   | May 00               | GFE                | Onboard       |
| <b>GPTE</b>         |  |                     |                      |                    |               |
| 050                 | Digital Multimeter                                   | 1                   | May 00               | GFE                | Onboard       |
| 051                 | Oscilloscope   | 1                   | May 00               | GFE                | Onboard       |
| 059                 | Stop Watch   | 1                   | May 00               | GFE                | Onboard       |
| 060                 | Headset, Sound Powered                               | 2                   | May 00               | GFE                | Onboard       |
| 061                 | Ultraviolet Light, Magnaflux                         | 1                   | May 00               | GFE                | Onboard       |
| 062                 | RPM Indicator  | 1                   | May 00               | GFE                | Onboard       |
| 063                 | 800A Digital Volt Meter                              | 12                  | Dec 99               | GFE                | Onboard       |
| <b>ST</b>           |  |                     |                      |                    |               |
| 103                 | Plate, Restraint                                     | 1                   | May 00               | GFE                | Onboard       |
| 104                 | Electrical Tool Box                                  | 1                   | May 00               | GFE                | Onboard       |
| 105                 | Mechanical Tool Box                                  | 1                   | May 00               | GFE                | Onboard       |
| 106                 | Calibration Kit                                      | 1                   | May 00               | GFE                | Onboard       |

**IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE****CIN, COURSE TITLE:** C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance**TRAINING ACTIVITY:** MTU 3040 NAMTRAU**LOCATION, UIC:** NAS Norfolk, 66046

| ITEM NO.    | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS  |
|-------------|---|----------|-----------|---------|---------|
| <b>TTE</b>  |   |          |           |         |         |
| 011         | FDSSS Installation                        | 1        | Dec 99    | GFE     | Onboard |
| 012         | SGSI Installation                         | 1        | Dec 99    | GFE     | Onboard |
| 013         | Eave-Off Light System                     | 1        | Dec 99    | GFE     | Onboard |
| <b>GPTE</b> |   |          |           |         |         |
| 050         | Digital Multimeter                        | 1        | May 00    | GFE     | Onboard |
| 063         | 800A Digital Volt Meter                   | 12       | Dec 99    | GFE     | Onboard |

**CIN, COURSE TITLE:** C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance**TRAINING ACTIVITY:** MTU 3041 NAMTRAU**LOCATION, UIC:** NAS North Island, 66065

| ITEM NO.    | EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS | QTY REQD | DATE REQD | GFE CFE | STATUS  |
|-------------|---|----------|-----------|---------|---------|
| <b>TTE</b>  |   |          |           |         |         |
| 011         | FDSSS Installation                        | 1        | Dec 99    | GFE     | Onboard |
| 012         | SGSI Installation                         | 1        | Dec 99    | GFE     | Onboard |
| 013         | Eave-Off Light System                     | 1        | Dec 99    | GFE     | Onboard |
| <b>GPTE</b> |   |          |           |         |         |
| 050         | Digital Multimeter                        | 1        | May 00    | GFE     | Onboard |
| 063         | 800A Digital Volt Meter                   | 12       | Dec 99    | GFE     | Onboard |

#### IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

**CIN, COURSE TITLE:** A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance

**TRAINING ACTIVITY:** Service School Command

**LOCATION, UIC:** Great Lakes, 30626

| <b>TYPES OF MATERIAL OR AID</b>            | <b>QTY<br/>REQD</b> | <b>DATE<br/>REQD</b> | <b>STATUS</b> |
|--|---------------------|----------------------|---------------|
| Color Monitor                              | 1                   | Mar 96               | Onboard       |
| Instructor Guide                           | 1                   | Mar 96               | Onboard       |
| Overhead Projector                         | 1                   | Mar 96               | Onboard       |
| Prefaulted Module Set                      | 1                   | Mar 96               | Onboard       |
| Student Guide                              | 15                  | Mar 96               | Onboard       |
| Student Test                               | 15                  | Mar 96               | Onboard       |
| Student Text (NEETS Modules 1 through 23)  | 15                  | Mar 96               | Onboard       |
| Transistor Trainer                         | 16                  | Mar 96               | Onboard       |
| Transparencies                             | 1 Set               | Mar 96               | Onboard       |
| Video Tape (Antennas)                      | 1                   | Mar 96               | Onboard       |
| Video Tape (Resonant Lines)                | 1                   | Mar 96               | Onboard       |
| Video Tape (Similarities of Wave Behavior) | 1                   | Mar 96               | Onboard       |
| Video Tape (Transmission Line Theory)      | 1                   | Mar 96               | Onboard       |
| Video Tape Player                          | 1                   | Mar 96               | Onboard       |
| Wall Chart                                 | 1 Set               | Mar 96               | Onboard       |

**CIN, COURSE TITLE:** K-652-2204, LAMPS MK-III RAST Electrical Technician

**TRAINING ACTIVITY:** Fleet Training Center

**LOCATION, UIC:** NS Norfolk, 61797

| <b>TYPES OF MATERIAL OR AID</b>       | <b>QTY<br/>REQD</b> | <b>DATE<br/>REQD</b> | <b>STATUS</b> |
|---------------------------------------|---------------------|----------------------|---------------|
| 35 Millimeter Slide Projector         | 1                   | May 00               | Onboard       |
| 35 Millimeter Slide Projector         | 1                   | May 00               | Onboard       |
| 35 Millimeter slides                  | 1 Set               | May 00               | Onboard       |
| 35 Millimeter slides                  | 1 Set               | May 00               | Onboard       |
| Instructor Guide                      | 2                   | May 00               | Onboard       |
| Instructor Guide                      | 2                   | Dec 99               | Onboard       |
| Overhead Projector                    | 1                   | May 00               | Onboard       |
| Overhead Projector                    | 1                   | May 00               | Onboard       |
| Prefaulted Module Set                 | 1 Set               | May 00               | Onboard       |
| Prefaulted Module Set                 | 1 Set               | May 00               | Onboard       |
| Sony Color Monitor                    | 1                   | May 00               | Onboard       |
| Sony Color Monitor                    | 1                   | May 00               | Onboard       |
| Student Guide                         | 25                  | Dec 99               | Onboard       |
| Student Guide                         | 10                  | May 00               | Onboard       |
| Transparencies                        | 1 Set               | May 00               | Onboard       |
| Transparencies                        | 1 Set               | May 00               | Onboard       |
| Video Cassette Recorder               | 1                   | May 00               | Onboard       |
| Video Cassette Recorder               | 1                   | May 00               | Onboard       |
| Video Tape (LAMPS MK-III RASR System) | 1                   | May 00               | Onboard       |
| Video Tape (LAMPS MK-III RASR System) | 1                   | May 00               | Onboard       |

#### IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

**CIN, COURSE TITLE:** C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance

**TRAINING ACTIVITY:** MTU 3040 NAMTRAU

**LOCATION, UIC:** NAS Norfolk, 66046

| <b>TYPES OF MATERIAL OR AID</b> | <b>QTY<br/>REQD</b> | <b>DATE<br/>REQD</b> | <b>STATUS</b> |
|---------------------------------|---------------------|----------------------|---------------|
| Instructor Guide                | 2                   | May 00               | Onboard       |
| Overhead Projector              | 1                   | Dec 99               | Onboard       |
| Student Guide                   | 10                  | May 00               | Onboard       |
| Student Test                    | 25                  | Dec 99               | Onboard       |
| Transparencies                  | 1 Set               | Dec 99               | Onboard       |
| Wall Chart                      | 8                   | Dec 99               | Onboard       |

**CIN, COURSE TITLE:** C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance

**TRAINING ACTIVITY:** MTU 3041 NAMTRAU

**LOCATION, UIC:** NAS North Island, 66065

| <b>TYPES OF MATERIAL OR AID</b> | <b>QTY<br/>REQD</b> | <b>DATE<br/>REQD</b> | <b>STATUS</b> |
|---------------------------------|---------------------|----------------------|---------------|
| Instructor Guide                | 2                   | Dec 99               | Onboard       |
| Overhead Projector              | 1                   | Dec 99               | Onboard       |
| Student Guide                   | 25                  | Dec 99               | Onboard       |
| Student Test                    | 25                  | Dec 99               | Onboard       |
| Transparencies                  | 1 Set               | Dec 99               | Onboard       |
| Wall Chart                      | 8                   | Dec 99               | Onboard       |

#### IV.B.3. TECHNICAL MANUALS

**CIN, COURSE TITLE:** A-191-0010, Shipboard Information Training and Entertainment Closed Circuit Television Maintenance  
**TRAINING ACTIVITY:** Service School Command  
**LOCATION, UIC:** Great Lakes, 30626

| TECHNICAL MANUAL NUMBER / TITLE                            | MEDIUM    | QTY<br>REQD | DATE<br>REQD | STATUS  |
|--|-----------|-------------|--------------|---------|
| ISBN 0-07-024928-8<br>Basic Electronics                    | Hard copy | 1           | Mar 96       | Onboard |
| ISBN 0-07-024931-8<br>Electronic Circuits and Applications | Hard copy | 1           | Mar 96       | Onboard |
| ISBN 0-07-024933-4<br>Basic Television and Video Systems   | Hard copy | 14          | Mar 96       | Onboard |
| ISBN 0-672-22749-5<br>VCR Theory and Repair                | Hard copy | 14          | Mar 96       | Onboard |
| NAVSEA 0967-LP-000-0120<br>Electronic Circuits             | Hard copy | 1           | Mar 96       | Onboard |

**CIN, COURSE TITLE:** K-652-2204, LAMPS MK-III RAST Electrical Technician  
**TRAINING ACTIVITY:** Fleet Training Center  
**LOCATION, UIC:** NS Norfolk, 61797

| TECHNICAL MANUAL NUMBER / TITLE   | MEDIUM    | QTY<br>REQD | DATE<br>REQD | STATUS  |
|---|-----------|-------------|--------------|---------|
| AD-400A1 MDB-000<br>Horizontal Reference Set A/W 37A-1 Intermediate/Depot<br>Maintenance Manual | Hard copy | 10          | May 00       | Onboard |
| AD-400A1-IPB-000<br>Illustrated Parts Breakdown, Horizon Reference Set A/W 37A-1                | Hard copy | 10          | May 00       | Onboard |
| AD-400A1-OMB-000<br>Horizontal Reference Set A/W 37A-1 Organizational Maintenance               | Hard copy | 10          | May 00       | Onboard |
| AD-700A1-IPB-000<br>RAST System A/W 42U-1(V) Illustrated Parts Breakdown                        | Hard copy | 10          | May 00       | Onboard |
| AD-700A1-OMI-000<br>RAST System A/W 42U1(V) Organizational Maintenance                          | Hard copy | 10          | May 00       | Onboard |

#### IV.B.3. TECHNICAL MANUALS

**CIN, COURSE TITLE:** K-652-2204, LAMPS MK-III RAST Electrical Technician  
**TRAINING ACTIVITY:** Fleet Training Center  
**LOCATION, UIC:** San Diego, 61690

| TECHNICAL MANUAL NUMBER / TITLE   | MEDIUM    | QTY<br>REQD | DATE<br>REQD | STATUS  |
|---|-----------|-------------|--------------|---------|
| AD-400A1 MDB-000<br>Horizontal Reference Set A/W 37A-1 Intermediate/Depot<br>Maintenance Manual | Hard copy | 10          | May 00       | Onboard |
| AD-400A1-IPB-000<br>Illustrated Parts Breakdown, Horizon Reference Set A/W 37A-1                | Hard copy | 10          | May 00       | Onboard |
| AD-400A1-OMB-000<br>Horizontal Reference Set A/W 37A-1 Organizational Maintenance               | Hard copy | 10          | May 00       | Onboard |
| AD-700A1-IPB-000<br>RAST System A/W 42U-1(V) Illustrated Parts Breakdown                        | Hard copy | 10          | May 00       | Onboard |
| AD-700A1-OMI-000<br>RAST System A/W 42U1(V) Organizational Maintenance                          | Hard copy | 10          | May 00       | Onboard |

**CIN, COURSE TITLE:** C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance  
**TRAINING ACTIVITY:** MTU 3040 NAMTRAU  
**LOCATION, UIC:** NAS Norfolk, 66046

| TECHNICAL MANUAL NUMBER / TITLE  | MEDIUM    | QTY<br>REQD | DATE<br>REQD | STATUS  |
|--|-----------|-------------|--------------|---------|
| AD-400B1-OMI-000<br>Flight Deck Status and Signaling System Maintenance Manual | Hard copy | 15          | Dec 99       | Onboard |
| NAVAIR 51-5B-2<br>Stabilized Glide Slope Indicator Maintenance Manual          | Hard copy | 15          | Dec 99       | Onboard |

**CIN, COURSE TITLE:** C-670-2013, Stabilized Glide Slope Indicator and Wave-Off Light Systems Maintenance  
**TRAINING ACTIVITY:** MTU 3041 NAMTRAU  
**LOCATION, UIC:** NAS North Island, 66065

| TECHNICAL MANUAL NUMBER / TITLE  | MEDIUM    | QTY<br>REQD | DATE<br>REQD | STATUS  |
|--|-----------|-------------|--------------|---------|
| AD-400B1-OMI-000<br>Flight Deck Status and Signaling System Maintenance Manual | Hard copy | 15          | Dec 99       | Onboard |
| NAVAIR 51-5B-2<br>Stabilized Glide Slope Indicator Maintenance Manual          | Hard copy | 15          | Dec 99       | Onboard |



## PART V - MPT MILESTONES

| COG CODE | MPT MILESTONES  | DATE   | STATUS    |
|----------|---|--------|-----------|
| TSA      | Distributed Draft NTSP for Review                                   | Oct 91 | Completed |
| PDA      | Conducted NTSP Conference   | Feb 93 | Completed |
| PDA      | Submitted Proposed NTSP to OPNAV                                    | Jul 93 | Completed |
| OPNAV    | Approved NTSP   | Aug 93 | Completed |
| PDA      | Provided Initial Training for HOSS, HRS, SGSI, FDSSS, and WOL       | Jan 94 | Completed |
| TSA      | Delivered TTE for HOSS, HRS, SGSI, FDSSS, and WOL to Training Sites | Apr 95 | Completed |
| TA       | Began Follow-on Training for HOSS, HRS, SGSI, FDSSS, and WOL        | Oct 95 | Completed |
| TSA      | Developed Proposed NTSP   | Feb 00 | Completed |
| OPNAV    | Approved NTSP   | Apr 00 | Completed |
| TSA      | Developed Draft NTSP  | Jul 02 | Completed |
| TSA      | Distributed Draft NTSP for Review                                   | Aug 02 | Completed |
| PDA      | Achieve VLA Initial Operating Capability on LPD 17 Class Ships      | Sep 02 | Completed |
| TSA      | Developed Proposed NTSP for OPNAV Approval                          | May03  | Completed |
| PDA      | Complete Planned VLA Installations Aboard LPD 17 Class Ships        | FY08   | Pending   |



## PART VI - DECISION ITEMS / ACTION REQUIRED

| DECISION ITEM OR ACTION REQUIRED     | COMMAND ACTION | DUE DATE | STATUS |
|--------------------------------------|----------------|----------|--------|
| No NTSP decisions or actions pending |                |          |        |



## PART VII - POINTS OF CONTACT

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